Conferring of degrees

At the close of the 109th Academic Year

The Johns Hopkins University

May 31, 1985

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ORDER OF PROCESSION

MARSHALS

Karl Alexander
Edward J. Bouwer
Paul R. Daniels
Marc Donohue
Frederick Holborn
Roger A. Horn
Jean Eichelberger Ivey
Allyn Kimball
Shin Lin
H. Warren Moos
Selina Sue Prosen
Fred S. Schock
Henry M. Seidel

THE GRADUATES

*

MARSHALS

Brown Murr
Frederic Davidson

THE FACULTIES

*

MARSHALS

Robert E. Green
John Russell-Wood

THE DEANS
MEMBERS OF THE SOCIETY OF SCHOLARS
OFFICERS OF THE UNIVERSITY
THE TRUSTEES

*

CHIEF MARSHAL

Owen M. Phillips

THE CHAPLAINS
THE HONORARY DEGREE CANDIDATES
THE PROVOST OF THE UNIVERSITY
THE CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY

*

ORDER OF EVENTS

STEVEN MULLER
President of the University, presiding

* * *

PRELUDE

Gaillard
JOHANN HERMANN SCHEIN
(1586-1630)

A Toye
New Sa-Hoo
GILES FARNABY
(1565-1640)

A Classical March
LUDWIG VAN BEETHOVEN
(1770-1827)

*

PROCESSIONAL

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation

La Mourisque
Pavane
TIELMAN SUSATO
(? -1561)

Festive marches from Belshazarr, Ezio, Rinaldo and Scipione
GEORGE FRIDERIC HANDEL
(1685-1759)

THE PRESIDENT'S PROCESSION

Fanfare
WALTER PISTON
(1894-1976)

Marches from Judas Maccabaeus and Floridante
GEORGE FRIDERIC HANDEL
(1685-1759)

*

INVOCATION

CLYDE R. SHALLENBERGER
Director
The Chaplaincy Service
The Johns Hopkins Hospital

*

THE NATIONAL ANTHEM

*

GREETINGS

GEORGE G. RADCLIFFE
Chairman of the Board of Trustees

*

PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

Jo Eirik Asvall
Ivan L. Bennett, Jr.
Leighton E. Cluff
John T. Grayhack
Merel H. Harmel
Horace Louis Hodes
Thomas P. Hughes
Ingo Müller
David C. Sabiston, Jr.
Mikio Shikita
Te Pao Wang
James J. Whalen
Henry I. Yamamura

SCHOLARS PRESENTED BY RICHARD LONGAKER
Provost of the University

*

THE FESTIVAL BRASS

Ellery B. Woodworth, conductor

Allegro from Opus 15
Hector Berlioz
(1803-1869)

*

CONFERRING OF HONORARY DEGREES

Sibley W. Hoobler
John Houseman
William H. Schuman
James W. Rouse

PRESENTED BY RICHARD LONGAKER

*

ADDRESS

James W. Rouse
Chairman of The Enterprise Development Company

*

CONFERRING OF DEGREES ON CANDIDATES

BACHELORS OF ARTS

Presented by

GEORGE W. FISHER
Dean, School of Arts and Sciences

* * *

BACHELORS OF ENGINEERING SCIENCE
BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING
BACHELORS OF SCIENCE IN CIVIL ENGINEERING
BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

CONFERRING OF DEGREES ON CANDIDATES
continued

BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES
BACHELORS OF ARTS
BACHELORS OF CIVIL ENGINEERING
BACHELORS OF ELECTRICAL ENGINEERING
BACHELORS OF INDUSTRIAL ENGINEERING
BACHELORS OF MECHANICAL ENGINEERING

Presented by

V. DAVID VANDELINDE

Dean, G.W.C. Whiting School of Engineering

* * *

PERFORMERS CERTIFICATES
BACHELORS OF MUSIC

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE

Presented by

STANLEY C. GABOR

Dean, School of Continuing Studies

* * *

MASTERS OF SCIENCE
MASTERS OF EDUCATION
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY

Presented by

STANLEY C. GABOR

Dean, School of Continuing Studies

* * *

MASTERS OF MUSIC
ARTISTS DIPLOMAS

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by
DONALD A. HENDERSON
Dean, School of Hygiene and Public Health

* * *

MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF ARTS

Presented by
ROBERT A. LYSTAD
Associate Dean, School of Advanced International Studies

* * *

MASTERS OF ARTS

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *

MASTER OF CIVIL ENGINEERING
MASTERS OF SCIENCE
MASTERS OF SCIENCE IN ENGINEERING
MASTER OF ARTS

Presented by
V. DAVID VANDELINDE
Dean, G. W. C. Whiting School of Engineering

* * *

MASTERS OF ARTS

Presented by
GEORGE W. FISHER
Dean, School of Arts and Sciences

* * *

DOCTORS OF EDUCATION

Presented by

STANLEY C. GABOR

Dean, School of Continuing Studies

* * *

DOCTORS OF MUSICAL ARTS

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by

DONALD A. HENDERSON

Dean, School of Hygiene and Public Health

* * *

DOCTORS OF PHILOSOPHY

Presented by

ROBERT A. LYSTAD

Associate Dean, School of Advanced International Studies

* * *

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by

RICHARD S. ROSS

Dean, School of Medicine

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF PHILOSOPHY

Presented by

V. DAVID VANDELINDE

Dean, G. W. C. Whiting School of Engineering

* * *

DOCTORS OF PHILOSOPHY

Presented by

GEORGE W. FISHER

Dean, School of Arts and Sciences

* * *

STATEMENT TO THE GRADUATES

STEVEN MULLER

President of the University

*

BENEDICTION

GRETCHEN VAN UTT

Chaplain

The Johns Hopkins University

*

RECESSIONAL

March

CARL PHILLIPP EMANUEL BACH
(1714-1788)

Martial music Le Nozze di Figaro

WOLFGANG AMADEUS MOZART
(1756-1791)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and graduates have left the area.

JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social or engineering sciences, or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion. They are presented with a diploma and a medallion with a black and gold ribbon. The Scholars wear the medallion around the neck, and they also wear academic costumes.

Today we honor 13 new members who have been elected this year to the Johns Hopkins Society of Scholars.

Dr. Jo Eirik Asvall, director of the Regional Office for Europe of the World Health Organization (W.H.O.), was a postdoctoral fellow in the Department of Public Health Administration in the School of Hygiene and Public Health. He now holds, in effect, the most senior position for a health official among industrialized nations, since the European office of W.H.O. coordinates health activities among the world's developed countries. His skill in health care organization and management was first recognized in Norway, where his efforts led ultimately to reorganization of the Norwegian health care system and the introduction of one of the most sophisticated data systems of any European nation. He has continued this level of dedicated service with the W.H.O., fostering imaginative programs in health planning and culminating in a 1983 agreement among all member countries on strategies to be followed that was a landmark in international accord.

Dr. Ivan L. Bennett, Jr., professor of medicine at New York University Medical Center, was a postdoctoral fellow in the Department of Pathology in the School of Medicine. In addition to his teaching and service as an administrator, which included 12 years as dean of the New York University School of Medicine, he has made significant research contributions on the pathogenesis of fever. He has also served as consultant or advisor to numerous national and international bodies concerned with health, science policy and research management. They include the Office of Science and Technology, of which he was deputy director and acting director, and the President's Science Advisory Committee, the National Research Council, the National Academy of Sciences, and the U.S. Department of State. Dr. Bennett's demonstration of deep concern for human well being and scientific affairs has earned him international respect.

Dr. Leighton E. Cluff, executive vice president of the Robert Wood Johnson Foundation, was a postdoctoral fellow in both the School of Medicine and the School of Hygiene and Public Health. In his research, he concentrated on the area of infectious diseases, particularly the pathogenesis of staphylococcal infections, and was a leader in the application of the techniques of clinical epidemiology to the study of adverse drug reactions. He served for ten years as chairman of the Department of Medicine at the University of Florida College of Medicine, and joined the Robert Wood Johnson Foundation in 1976. In his present position, Dr. Cluff is responsible for carrying out the Foundation's objectives of improving access to medical care in underserved populations, increasing the productivity of health care systems, and improving the functional effectiveness of those who are ill. His achievements in both research and administration have earned wide acclaim.

Dr. John Thomas Grayhack is professor and chairman of the Department of Urology and director of the Kretschmer Laboratory at Northwestern University Medical School. He was a postdoctoral fellow in the Department of Surgery and the Department of Urology at the School of Medicine, and was resident in urology at Johns Hopkins Hospital. He has studied and written extensively on the detection and treatment of prostatic and bladder diseases, and is known in his field throughout the United States for his contributions to the physiology of the prostate and the hormonal management of prostatic cancer. In the course of his teaching career, Dr. Grayhack has trained many outstanding urologists, including a large number who today are academic department chairmen. Among numerous professional affiliations, he has served as president, examiner and trustee for the American Board of Urology.

Dr. Merel H. Harmel, professor and former chairman of the Department of Anesthesiology at the Duke University Medical Center, holds the distinction of having been a postdoctoral fellow and the first resident in the Department of Anesthesiology at the School of Medicine. He was also the anesthetist for the historic first Blalock-Taussig "blue baby" operation that helped open the modern era of cardiac surgery. Dr. Harmel is a Johns Hopkins "product" in the fullest sense, having earned his bachelor's degree at the University in 1938 and his M.D. in 1943. During his career, he has served three major universities as anesthesiology chairman: the State University of New York Downstate Medical Center and the University of Chicago, as well as Duke University. He has been a leading contributor in research on metabolism under anesthesia and is an internationally recognized authority in the anesthesiology field.

Dr. Horace Louis Hodes, distinguished service professor in the Department of Pediatrics at Mount Sinai School of Medicine in New York, was a postdoctoral fellow in pediatrics at the School of Medicine. As director of pediatrics at Mount Sinai for 27 years, he served as an inspiring role model for many young physicians. Through his research, he made notable contributions toward an understanding of the structure and behavior of viruses. His development of the ultraviolet method of inactivating rabies and influenza viruses to prepare non-infectious vaccines was used commercially for many years. Other research encompassed areas as diverse as identifying the importance of rotavirus in infantile diarrhea and the role of mosquitoes in the transmission of encephalitis. Dr. Hodes' life is an exemplary blend of dedicated clinical service and a continuing interest in research.

Dr. Thomas P. Hughes, professor in the Department of History and Sociology of Science at the University of Pennsylvania, was a postdoctoral fellow in the Department of History in the School of Arts and Sciences. One of the world's leading scholars in the history of 19th and 20th century technology, he is the author of two landmark publications about the nature of technological change: *Elmer Sperry—Inventor and Engineer* and *Networks of Power—Electrification of Western Society 1880-1930*. Both were published by the Johns Hopkins University Press and both won awards that attest to the quality of his work. In addition, he has published numerous articles in American and European history journals that serve as authoritative analyses of social change driven by technological development.

Dr. Ingo Müller is professor of thermodynamics in the Department of Physical Engineering Science at the Technische Universitat Berlin in the Federal Republic of Germany. He was a postdoctoral fellow in the Department of Mechanics at the School of Engineering in 1966-1967. Since that time, he has become a leading figure in several areas of research in thermodynamics, including irreversible processes and relativistic thermodynamics, and his publications are widely cited and used in both this country and Europe. Recently he organized a major international meeting in Berlin dealing with the foundations of thermodynamics. His international influence in his field has been further spread by his teaching and his direction of many doctoral candidates at Johns Hopkins and in Germany.

Dr. David C. Sabiston, Jr., professor and chairman of the Department of Surgery at Duke University Medical Center, was a postdoctoral fellow in the Department of Surgery at the School of Medicine, where he trained under the direction of Dr. Alfred Blalock. Dr. Sabiston remained at Johns Hopkins and was professor of surgery until 1964, when he assumed his present position at Duke. A leading figure in cardiac surgery, he was recently presented with the American Heart Association's Distinguished Achievement Award for research in the physiology of coronary circulation and in myocardial metabolism, and for pioneering work in developing coronary artery bypass grafts. He has also received numerous honors for his international influence in surgical education, having two textbooks on surgery published in six languages and serving on the editorial boards of seven major surgical journals. Throughout his professional life, Dr. Sabiston has upheld and spread the Blalock tradition of leadership in surgical practice and education.

Dr. Mikio Shikita is chief of the Section of Chemical Pharmacology at the National Institute of Radiological Sciences in Japan, and holds academic appointments at the University of Tokyo and Chiba University. He was a postdoctoral fellow in the Department of Pharmacology at the School of Medicine. Dr. Shikita's contributions to science have attracted worldwide attention, particularly his work in the areas of steroid biochemistry, and in radiation protection and experimental hematology. His research has led to a new understanding of several important biochemical mechanisms and of factors which cause terminal differentiation of stem cells. His professional affiliations include the Japan Radiation Research Center, the Japanese Biochemical Society, the Pharmaceutical Society of Japan and the International Society of Experimental Hematology. He is a frequently-invited speaker at international conferences on his fields of interest.

Dr. Te Pao Wang, research professor at the Shanghai Institute of Biochemistry, Academia Sinica, was a postdoctoral fellow in the Department of Biology in the School of Arts and Sciences. While at Johns Hopkins, he carried out pioneering studies in an area of biochemistry which became important in developing the basic approaches to modern enzymology. When he returned to China in 1954, he organized, under difficult postwar conditions, a laboratory that was the source of basic compounds necessary for his own research and for that of others in his native country. His recent research, on the structure and function of transfer RNAs, culminated in the synthesis of several transfer RNAs and is recognized throughout the world as an important contribution to molecular biology and biochemistry.

Dr. James J. Whalen is professor in the Department of Electrical Engineering at the State University of New York at Buffalo. He was a postdoctoral fellow in the School of Engineering in 1969-1970. Dr. Whalen's area of research has been of great importance in furthering the development of compact, complex computers, and has particularly benefited the national defense effort. His studies have centered on electromagnetic effects on devices and fault tolerance in electronic devices and circuits. He has also made significant advances in the study of electromagnetic compatibility. Dr. Whalen has been a highly successful preceptor of doctoral students and has been cited as a model faculty member, leader and scholar.

Dr. Henry I. Yamamura is professor in the Department of Pharmacology, College of Medicine, University of Arizona Health Science Center. He was a postdoctoral fellow in the Department of Pharmacology at the School of Medicine. Dr. Yamamura is one of the pioneers in identifying receptor sites in the brain, where the most important drugs used in psychiatry today act. He has also identified receptors for the major neurotransmitters, the chemical messengers of the brain, and worked out changes in these receptors that occur in various brain diseases, such as Alzheimer's Disease. In addition to being a leading figure in psychopharmacology, he has been recognized as one of the most distinguished teachers at the University of Arizona College of Medicine.

Citation Read by

RICHARD P. LONGAKER

in Presenting

SIBLEY W. HOOBLER

for the Degree of Doctor of Humane Letters

May 31, 1985

Physician, scientist, and teacher, you have helped prolong millions of lives through your research and your teaching.

After earning your medical degree from The Johns Hopkins University School of Medicine, your remarkable investigations led to the development of therapeutic agents that effectively control hypertension. Your science has vastly expanded medical knowledge on a variety of topics in experimental hypertension, clinical pharmacology, and patient care. And, under your leadership, dozens of postgraduate fellows have been trained to carry out clinical investigation, following your rigorous example.

Today hypertension is recognized as one of mankind's greatest killers. This knowledge can be directly traced to your persistent effort to understand. When you commenced your research there was no effective treatment. Today we know that hypertension, which affects 20 million Americans, is responsible for arteriosclerosis, which causes heart attack, stroke, and peripheral vascular disease. Millions are living longer and more productively because you had the vision to recognize the effects of hypertension and the determination to find agents that control it.

Sibley Hoobler, your research has brought honor to your profession and to this institution. For your dedication and pioneering work in medicine, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD P. LONGAKER

in Presenting

JOHN HOUSEMAN

for the Degree of Doctor of Humane Letters

May 31, 1985

Producer, director, and actor, your remarkable talents have enriched American cultural life, bringing artistry and innovation to audiences for more than half a century.

Arriving in the United States in the 1920s, you turned to the stage and quickly rose to prominence, directing and producing many successful plays and operas. These productions were boldly innovative, adding new dimensions to the American theatre.

You co-founded the legendary Mercury Theatre with Orson Welles which resulted in two American film classics: *Citizen Kane* and *Jane Eyre,* which you adapted for the screen.

You helped create the Voice of America, and between 1945 and 1962, you produced eighteen feature films, of which seven received Academy Awards. Your work in television has earned you three Emmy Awards, and your film acting has won wide critical acclaim, most notably for your award-winning performance as an imperious law professor in *The Paper Chase.*

Few careers have dominated American film and theatre so completely. Your masterful skills in the dramatic arts, at nearly every level, have exerted a lasting influence.

John Houseman, in admiration and appreciation of your extraordinary artistic achievements, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD P. LONGAKER

in Presenting

WILLIAM HOWARD SCHUMAN

for the Degree of Doctor of Humane Letters

May 31, 1985

Composer, educator, and administrator, you have had a lasting impact on American music.

Profoundly dedicated to the notion that musicians "must contribute to the development of music as a constructive force in contemporary life," you have been equally influential as an artist and musical administrator.

Although you began your musical career composing popular music, by the time you were thirty you were recognized as a classical composer of surpassing achievement. You were awarded the first of many musical honors when your secular cantata, *A Free Song,* won the very first Pulitzer Prize for music in 1943 and, very recently, you received another special Pulitzer Citation for "more than half a century of contribution to American music as composer and educational leader." Your work has included songs; ten symphonies; choral works; quartets; and film scores. With inspiration from such divergent influences as Walt Whitman, Martha Graham, and Archibald Macleish your music is at once accessible and artistically complex.

Your administrative abilities flowered at the Julliard School of Music, where you served as president for sixteen years. You revitalized and revolutionized the curriculum, established the Juilliard String Quartet, and added the distinguished dance and theatre departments. Thereafter, at the Lincoln Center for Performing Arts, where you served as president for seven years, you again personified the artist as gifted leader and creator.

William Howard Schuman, for your contributions to the performance and appreciation of American music, and in gratitude for the gift of your musical genius, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD P. LONGAKER

in Presenting

JAMES W. ROUSE

for the Degree of Doctor of Humane Letters

May 31, 1985

Master planner, developer and humanitarian, you have reshaped contemporary thinking about the functions and rewards of urban life.

Co-founder of one of the world's largest real estate development and management organizations, you pioneered the revolutionary enclosed shopping mall, and later created the "new town" of Columbia, Maryland, hailed as a triumph of urban planning.

An early champion of urban renewal, you were a founder of the Greater Baltimore Committee at a time when Baltimore's infrastructure was worsening. Your vision, leadership and imagination helped transform this city into a commercial and social centerpiece. Today, your "festival marketplaces" have restored a sense of community and vitality to a number of American cities once destined for decay. And for many years your wisdom as a Trustee nurtured this University.

For nearly fifty years, you have had a unique and uncanny ability to blend entrepreneurship with human need. After retiring as chief executive of the Rouse Company, you created the Enterprise Foundation, a non-profit organization dedicated to helping the economically disadvantaged acquire housing. This new venture is emblematic of your deep commitment to the service of others.

James Rouse, for your contributions to urban planning, your remarkable vision and profound social commitment, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Owen M. Phillips, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue — Philosophy
Light blue — Education
Orange — Engineering
Gold-yellow — Science
Green — Medicine
Salmon pink — Public Health
Pink — Music
Purple — Laws
White — Arts and Letters

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins
Light blue, white chevron — Columbia
Dark blue — Yale
Blue with white chevron — Duke
Dark blue, two orange chevrons — Illinois
Light blue, two white chevrons — North Carolina
Old gold, maroon chevron — Minnesota
Old gold — Iowa
Gold, blue chevron — California
Gold — Virginia
Purple, gold chevron — Northwestern
Carnegie Tartan — Carnegie-Mellon
Purple — New York University
Bright red — Wisconsin
Plum, with scarlet — London
Maroon — Chicago
Crimson — Harvard
Carnelian, two white chevrons — Cornell
Cardinal — Stanford
Red, tri-chevron in center — Heidelberg
Dandelion yellow — Michigan
Maize, azure blue chevron — Sorbonne
Yellow and white — Rochester

THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free

—St. John 8:32

AWARDS

IN THE SCHOOLS OF ARTS AND SCIENCES, ENGINEERING AND MEDICINE

LOUIS SUDLER PRIZE IN THE ARTS

for excellence in the visual or performing arts

Awarded to Bruce J. Cohen

IN THE SCHOOLS OF ARTS AND SCIENCES AND ENGINEERING

AMERICAN CHEMICAL SOCIETY, MARYLAND SECTION STUDENT AWARD

for outstanding scholastic achievement in chemistry and related disciplines by an undergraduate

Awarded to Aleksandar Rajkovic

AMERICAN INSTITUTE OF CHEMISTS AWARD

for a demonstrated record of leadership, ability, character, scholastic achievement and potential for advancement of the chemical professions

Awarded to Albert John Polito

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS

for demonstrated excellence in a field of mass communications

Awarded to Laura Fry

ALEXANDER BUTLER PRIZE

for the best research paper bv a first year graduate student in History

Awarded to Tommaso Astarita

EUGENIO AND PATRICIA CASTILLO AWARD

to the best first or second year graduate student in Political Economy

Awarded to Naoko Nishimura

G. STANLEY HALL PRIZE

for outstanding achievement by an undergraduate in Psychology

Awarded to Ana Aguirre

THE MAX HOCHSCHILD FUND

The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is awarded to

Thomas Hyonsu Park

THE 3 ARTS CLUB OF HOMELAND AWARD

for outstanding achievement in the Writing Seminars

Awarded to Charles Gibbons Prettyman
Madeleine Maria Stein

AT&T INFORMATION SYSTEMS—WILLIAM HUGGINS AWARD

for outstanding service and academic achievement by a senior and junior in Electrical Engineering and Computer Science

Awarded to Christine Victor O'Keffe
Cary Bradford Phillips

ADOLF KATZENELLENBOGEN MEMORIAL PRIZE

for outstanding work in Art History

Awarded to Eric Garberson

DONALD E. KERR MEMORIAL MEDAL

to the outstanding undergraduate major in Physics

Awerded to Elaine Li-Ai Chun
Mark Andrew Worris

ARTHUR KOUGUELL PRIZE

to the outstanding undergraduate major in History

Awarded to Walter Thomas Wilson

SAMUEL H. KRESS FOUNDATION FELLOWSHIP

in the Department of the History of Art

Awarded to Glen Gunhouse

ERNEST M. MARKS AWARD

in recognition of excellence in instruction in Chemistry

Awarded to Allan B. Bailey
Kevin M. McHugh

MATHEMATICAL SCIENCES AWARD

for outstanding achievement by an undergraduate

Awarded to Mark E. Hartman
Steven J. Steinsaltz

PAUL A. McCOY PRIZE

for the most distinguished masters essay in Political Science

Awarded to John A. Maltese

ROSE TRAVELLING SCHOLARSHIP

Awarded to Jane Francis Lears
Tyrus Henry Miller

SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD

in recognition of outstanding accomplishment in Chemistry

Awarded to James V. Coe
Charles A. Long

JULIAN C. STANLEY AWARD

for the undergraduate psychology major who most closely approximates
Dr. Stanley's personal and professional standard of excellence

Awarded to Lisa Thompson

JULIUS TURNER PRIZE

for the most distinguished senior thesis in Political Science

Awarded to Yoon-Young Lee
Christopher E. Mullady

JOHN BOSWELL WHITEHEAD AWARD

for outstanding achievements by an undergraduate in Electrical Engineering
and Computer Science

Awarded to Jeffrey Harold Sinsky

LOY WILKINSON AWARD

for a demonstrated record of academic excellence, leadership, and service
in Chemical Engineering

Awarded to A. William Flounders

IN THE PEABODY CONSERVATORY OF MUSIC

THE EDITH AND IRENE ASHWORTH PRIZE

Awarded to Deborah Kramer

THE WOMEN'S BOARD OF THE PEABODY INSTITUTE AWARD

Awarded to

Lisa Alexander
Moli Chiang
Zu-Feng Le

THE BALTIMORE MUSIC CLUB AWARD IN ACCOMPANYING

Cecilia Cho

THE ROSE MARIE MILHOLLAND AWARD IN PIANO

Eric Conway

THE ZAIDEE T. THOMAS INSTRUMENTALIST AWARD

Jocelyn Edey

THE ANNIE WENTZ PRIZE IN VOICE

Patricia Gallagher

THE PAULINE FAVIN AWARD IN PIANO

Sean Gallagher

THE JOSEF KASPAR AWARD IN VIOLIN

Jae Kim

THE GEORGE CASTELLE MEMORIAL AWARD IN VOICE

Susán Simon

THE THREE ARTS CLUB OF HOMELAND VOICE PRIZE

Awarded to Lisa Panther

THE J. C. VAN HULSTEYN MEMORIAL AWARD IN VIOLIN

Chiao-Ling Sun

IN THE SCHOOL OF CONTINUING STUDIES

DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business for the highest average in the undergraduate programs

Awarded to Penny Ittner

EDWARD J. STEGMAN, C. P. A., MEMORIAL AWARD

in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level

Awarded to Ranjana Desai
Maureen Patricia Foley
Marla Jean Frazier
Marianne Hornstein
Laura Lee Smith Kopicky
John Locke Merrill
Deborah Rausch
Carolyn York

WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success

Awarded to Thomas Eugene Arvin

IN THE SCHOOL OF MEDICINE

HENRY STRONG DENISON SCHOLARSHIP

for excellence in biomedical research

Awarded to Robert David Maschal
Daniel Joseph McGraw
Elizabeth O'Hearn
Jonathan Wilson Simons

SANDOZ AWARD

for excellence in the field of Pharmacology

Awarded to Amy Patrice Norden

LAUREL AND CLARENCE H. KOENNECKE AWARD

for most promise in the surgical field of gynecology

Awarded to Maureen Patricia Whalen

FRANKLIN PAINE MALL SCHOLARSHIP IN ANATOMY

in recognition of outstanding accomplishment

Awarded to Richard Michael Pomerantz
John Maurice Porter
John David Reed, Jr.

PAUL EHRLICH AWARD IN CLINICAL INVESTIGATION

in recognition of outstanding research accomplishment

Awarded to Barry Evan Kosofsky

PAUL EHRLICH GRADUATE STUDENT AWARD

Awarded to Kerry Jean Koller - 1984

HAROLD LAMPORT BIOMEDICAL RESEARCH SCHOLAR

for meritorious research completed during medical training

Awarded to Arnold-Peter Christoph Weiss

HAROLD LAMPORT RESEARCH FUND AWARD

Awarded to Kevin Michael Miller

DAVID ISRAEL MACHT MEMORIAL PRIZE

in recognition of excellence in investigation

Awarded to James Mukasa Ntambi

ALAN P. TRIMAKAS AWARD IN CARDIOVASCULAR RESEARCH

Awarded to Todd Jay Cohen

W. BARRY WOOD, JR. AWARD

in recognition of outstanding pre-clinical teaching

Awarded to
Renee Z. Dintzis (1981-82)
Mark E. Molliver (1982-83)

PROFESSORS' AWARD FOR EXCELLENCE IN TEACHING

Awarded to
Preclinical — Alan Walker
Clinical — William H. Zinkham
Preclinical and Clinical — Paul S. Lietman

IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS

to outstanding students in scientific fields

Awarded in 1981 to Darlene R. Ketten
Awarded in 1982 and 1983 to Stephen Joseph Berry

ALUMNI ASSOCIATION SCHOLARSHIP AWARD

to a student of outstanding promise

Awarded in 1979 to William John Huster
Awarded in 1980 to Jacqueline Agnew
Awarded in 1981 to Gail Wiscarz Stuart
Awarded in 1982 to Winifred Still Hayes
Awarded in 1982 to Angela Denise Mickalide
Awarded in 1982 to Nancy V. Yinger
Awarded in 1984 to Leslie M. Hardy

RUTH FREEMAN AWARD

to a nurse deemed to have produced the outstanding doctoral thesis

Awarded to M. E. Bonnie Rogers
Gail Wiscarz Stuart

PAUL A. HARPER AWARD

to a student in the Department of Population Dynamics whose academic performance has been judged to be outstanding

Awarded in 1984 to Stephen Joseph Berry
Gbolahan Afolabi Oni

JOHN C. HUME AWARD

for significance of doctoral research in the Department of Health Policy and Management

Awarded to Constance Mary Horgan

JOHN C. HUME AWARD

to a Master of Public Health graduate for academic excellence and professional promise

Awarded to Guthrie S. Birkhead

CORNELIUS W. KRUSE AWARD

for the outstanding dissertation in Environmental Health

Awarded to Jacqueline Agnew
RoseMarie Marilyn Booze

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

WILLIAM C. FOSTER AWARD

to a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster

Awarded to Timothy Michael McNamara
Peter Edgar Rioux

CHRISTIAN A. HERTER FELLOWSHIP

to the member of the second year class with the most outstanding record during the first year

Awarded to Daniel Howard Brotman
Malcolm Bush DeBevoise
Bruce Alan Lowry
Jeremy Oscar Preiss

HONOR SOCIETIES

PHI BETA KAPPA

From the Junior Class in the School of Arts and Sciences

Kathleen Susan Faust
Allen David Hamdan
Mark Charles Hannibal
Peter Charles Iacono
Lauance Wing-Hong Kam
Elizabeth Sharon Kelly
Hyung Min Lim
Sheri Lynn Nimetz
Ronit Simantov

From the Senior Class in the School of Arts and Sciences

Elected in 1983-84

Jessie Lynn Chai
Mohamad Reza Dana
Richard Demopoulos
Richard Corey Harkaway
Edward Chu-Wei Lee
GiHyung Martha Lee
Christopher Edward Mullady
Karel Raska
Mary Mei-Ling Yun

Elected in 1984-85

William Dean Adams
Bradley Alan Asher
Conrad Jarden Berger
Helane Blumenthal
Howard Steven Bregman
Bernard Stanley Ciiang
Pamela Hsuan-Lo Chang
Ellen Chuang
Elaine Li-ai Chun
Donn Joseph Colby
Rafael Cardoso Denis
Paul Joseph Dimuzio
Christopher G. Filippi
Paul Douglas Houk
Debra Susan Joselson
Philip S. Kwait
Sigrid Anne Larson
Yoon-Yung Lee
Paul Shu-Chiang Lin
Keith Leonard Miller
Achyut Shashikan Patel
Colin Kit Lun Phoon
Albert Joiin Polito
Charles Gibson Prettyman
Aleksandar Rajkovic
Cindy Lynn Raymond
Marc Oliver Roudebush
Moiara de Moraes Ruehsen
James M. Schlesinger
Gregory Smail Sendi
Richard Ian Silver
David Keith Simon
Madeleine Maria Stein
Jennifer Jane Williams
Walter Thomas Wilson
Mark Andrew Worris
Tony Tung-I Yang

From the School of Medicine

Patricia Angueira
Lynne Bickley
Michael Alexander Breda
Phillip Neal Effron
Martha Milner
Michael Mullane
Timothy Garrett Murray
David Shephard Raiford
Pamela Beth Sklar

From the School of Hygiene and Public Health

William John Huster

TAU BETA PI

National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

James Matthew Burck
Gregory Lee Burks
Dennis Allen Burton
James Thomas Cardwell
Ga-Yin Chan
John McCann Cunniff
James Theodore Everett
Roger Joseph Hajjar
Charn Kiatboonsri
Marcia Saralene Lecrone
Sung Moo Lee
Laurence E. Mermelstein
Ayesa Nazneen Mian
Christian Victor O'Keefe
Santiago Perez
William Ottis Romine
Noelle Rose Scaldara

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1983-84

Karl Steven Brace
Christopher Calingaert
Robert Austin Cardwell, Jr.
Eric Thai-Kun Choi
Gregory Allan Fabella
Timothy Tamin Khater
Francis Michael Lavelle
Patrick J. McGuinness
Cary Bradford Phillips
Patrick A. Santavenere
Richard David Schulick
Jeffrey Harold Sinsky
Elizabeth Ann Squires
Laura Beth Steefel
Steven Jay Steinsaltz
Mary Margaret Voytko

Elected in 1984-85

Steven Michael Biemer
David Douglas Brengel
Vitus Joon Tsi Chow
Amos Even
Stephen Scott Fink
Yung-Chieh Ho
Miriam Beth Kroshinsky
Jill Elaine Schmidt
Kristen-Robin Stevens
Claire Suzanne Shambaugh

From the Part-Time Engineering Program

John S. Babylon
Gregory Blatnik
Robert N. Bryan
Charles Fisher
Henry Fleischman
David Jackson
Michael Krause
Charles McEvoy
Jon Morlock
Scott A. Parks
William Quillen
Richard N. Schlosser

ALPHA OMEGA ALPHA

Honor Medical Society

Patricia Angueira
Lynn Kathleen Bickley
Michael Alexander Breda
Warren Douglas Bromberg
Philip Neal Effron
Elizabeth Carson Engle
Edward Morris Goldstein
Elaine C. Hefty
Ralph Harvey Hruban
Paul C. Kuo
Christina Mary Link
Robert Alan Livingston
Robert Andrew Luke
Robert David Mashal
Micheline Bernadette McCarthy
Richard Michael Pomerantz
John Maurice Porter
David Shepherd Raiford
John David Reed, Jr.
Pamela Beth Sklar

DELTA OMEGA

National Public Health Honor Society

David Gerard Addiss
Jacqueline Agnew
Roy Clifford Baron
Guthrie S. Birkhead
Anne Marie Schevenius Copeland
David Joseph Graham
Valerie Palma Gray
Neeru Grover
Winifred Still Hayes
Barbara Louise Herwaldt
Constance Mary Horgan
Huei-Su Huang
William John Huster
Catherine Kelleher
George William Korch, Jr.
William James Mayer
Lawrence Andrew Meinert
Angela Denise Mickalide
Patrica D. Moore
Roscoe Michael Moore
Joerg Nitzsche
Rubina Jamshed Patel
Richard Ira Pine
Angela Carol Presson
Rolf Dieter Walter Sabares-Klemm
Marcia Mona Sass
Elizabeth Anne Sheppard
Karen Lee Smith
Paul Douglas Sorlie
Gail Wiscarz Stuart
David Haskell Trump

PI KAPPA LAMBDA

National Music Honor Society

Eric Arthur Conway
Charles Ronald Ellis
James Andrew John Katchko
Nicholas Scott Pender
Chiao-Ling Sun

HONORS

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with General Honors

Margot Ellen Abels
William Jay Abrams
Paula Catherine Adams
William Dean Adams
Ana Inés Aguirre
Bradley Alan Asher
Christopher Joseph Baker
Rosy Eliza Benarroch
Conrad Jarden Berger
William Ross Bernstein
Heidi Jean Berube
Elisa Raman Bet-Mansour
David Steven Biderman
Helane Blumenthal
Michael Raymond Book
Howard Steven Bregman
Janice Lynn Brill
David Gary Browne
Bruce Arthur Cairns
Susan Marie Cassidy
Jessie Lynn Chai
Bernard S. Chang
Jih-Wen Chang
Pamela Hsuan-Lo Chang
Daniel Cheng
Ellen Chuang
Elaine Li-ai Chun
Lisa Marie Clark
Bruce Jeffrey Cohen
Donn Joseph Colby
Susan Carol Coventry
Sharon Patricia Crockett
Daniel Laurence Croteau
Mohammad Reza Dana
Richard Dimitrius Demopoulos
Rafael Cardoso Denis
Ravinder Singh Dhallan
Paul Joseph DiMuzio
Don Shimon Doering
Jean Etienne Duboscq
Stephanie Rogers Edgar
Jonathan Land Evans
Susan Joan Fetterman
Christopher G. Filippi
William Milton Gillespie
Karen Goll
Angela Sarah Guarda
Robin Dale Hanson
Richard Corey Harkaway
Melville French Heath II
Alan Wayne Heaton
Sudarshan Hebbar
James Michael Hedreen
Michael Hellberg
Susan Hendel
Edward William Hoehn-Saric
Gary Charles Horvath
Paul Douglas Houk
Barry Lee Hummel, Jr.
Taejin Im
Thalia D. Jeffres
Debra Susan Joselson
David M. Kagan
Shaival Jayesh Kapadia
Caren Allyson Kaplan
Adam Marc Kupitz
Philip S. Kwait
Samantha Eileen Kwon
Paul N. Lao
Sigrid Anne Larson
Stuart Andrew Leder
Edward Chu-Wei Lee
Gi-Hyung Martha Lee
Yoon-Young Lee
Elizabeth Ann Levine
Paul Shu-Chiang Lin
Susan Carole Lisker
Maywin Liu
Ian James MacAuslan
Alan Ona Malabanan
Lorna Jane Marke
Robin Leslie Marlor
Anthony Guy Massey
Robin Eden Maurer
Sharon A. Mavros
Karen Astrid McGuire
Paul Thomas Mecherikunnel
Christopher Edward Mullady
Peter Hui-mun Pak
Thomas Hyonsu Park
Susan Elizabeth Parker
Claudia Gesa Pasche
J. Andrew Patrick
Colin Kit Lun Phoon
David Lawrence Plaut
Albert John Polito
Ester Marie Ponce
Peter Aristides Poulos
Charles Gibbons Prettyman III
Mark Davenport Pritt
Carol Jean Pronsky
Michael Francis Purtell
Stephen D. Rachman
Aleksandar Rajkovic
Naren Raj Ramakrishna
Karel Raska
Cindy Lynn Raymond
Christopher James Riordan
Wadda Cynthia Rios-Font
John Justin Rosenthal
Bradley Roth
Lisa Rubenstein
Nancy Ellen Rubin
K Rudolph
Moiara deMoraes Ruehsen
Kathryn Diane Sack
Stephen Jeffrey Salzer
James Marc Schlesinger
Stephen John Segreto
Gregory Smail Sendi
Kim Seunghwan
Kara Fae Sheinart
Robert Silberstein
Richard Ian Silver
Deborah Mary Sinek
Eric Patrick Sipos
Michael David Slack
Eric Graham Smith
Magdi Maged Sobeih
Christopher George Spanich
Madeleine Maria Stein
Amy Nitzburg Thayer
Lisa Ann Thompson
Daniel Tsao
Maria C. Vissicchio
Albert George Volk
Lawrence Robert Volz
Michael William Waldron
Jennifer Jane Williams
Walter T. Wilson
Henry Keung Wong
Mark Andrew Worris
Tony Tung-I Yang
Stephen Yoest
Mary Mei-Ling Yun
Kristy Ann Zern

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with General Honors

John Stephen Babylon
Gregory Allen Blatnik
Steven Michael Biemer
Karl Steven Brace
David Douglas Brengel
Deborah Maureen Buettner
Robert Austin Cardwell, Jr.
Ga-Yin Chan
Jane Cheun
Eric Thai-Kun Choi
Gregory Henkuo Chow
Amelia Mae Dillon
James Michael Dorsey
William J. Dwyer
Amos Even
Gregory Allan Fabella
Stephen Scott Fink
Charles Larry Fisher, Jr.
Vazul Frank Gabor
Jeffrey Bennett Greenspan
Mark Evan Hartmann
Yung-Chieh Ho
David Lee Jackson
Michael Glenn Krause
Miriam Beth Kroshinsky
Francis Michael Lavelle III
Jeffrey Scott Levine
Patrick James McGuinness
Jay Todd Miller
Gary Ray Moulton
Lawrence Coad Olver
Scott Allen Parks
Norma Perez
Cary Bradford Phillips
Patrick Anthony Santavenere
Richard Norman Schlosser
Jill Elaine Schmidt
Richard David Schulick
Claire Suzanne Shambaugh
Jeffrey Harold Sinsky
Elizabeth Ann Squires
Laura Beth Steefel
Steven Jay Steinsaltz
Kristen-Robin Stevens
Lisa Janine Turbessi
Kyle Matthew Upton
Michael Alan Vogelbaum
Mary Margaret Voytko

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with Departmental Honors

William Abrams
Ana Aguirre
Bradley Asher
Kelly Ann Bevans
SSteven Born
Janice Brill
Alice Bullard
Pamela Chang
Elaine Chun
Lisa Clark
Bruce Cohen
Susan Coventry
Jean Duboscq
Susan Fetterman
Eileen Fitzgerald
Phillip Gales
Ralph Guttman
Melville Heath
Edward Hoehn-Saric
Paul Houk
Taejin Im
Debra Joselson
Adam Kupitz
Philip Kwait
Sigrid Larson
Yoon-Young Lee
Karen Lezny
Susan Lisker
Ian MacAuslan
Robin Marlor
Roland Martin
Anthony Massey
Gayle Matthei
Daniel Mirel
Christopher Mullady
Peter Pak
Thomas Park
Susan Parker
Claudio Pasche
James Patrick
Colin Phoon
David Plaut
Peter Poulos
Charles Prettyman
Mark Pritt
Steven Rachman
Aleksander Rajkovic
John Rosenthal
Bradley Roth
Nancy Rubin
K Rudolph
Stephen Salzer
Stepken Segreto
Gregory Sendi
Charles Singstad
Michael Slack
Eric Smith
Magdi Soheih
Madeline Stein
Katrina Tautz
Lisa Thompson
Michael Waldron
Gregg Weinstock
Jennifer Williams
Dwight Wilson
Walter Wilson
Henry Wong
Mark Worris
Mary Yun
Robert Zeldin

Graduates from the Biology Honors Program

Leslie Robin Marlor
Naren Raj Ramakrishna
Charles Paul Singstad
Eric Graham Smith
Magdi Maged Soheih
Henry Keung Wong
Mary Mei-Ling Yun

Graduate from the Humanistic Studies Honors Program

Marc Oliver Roudebush

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with Departmental Honors

Evans Amos
Vincent Battaglia
Steven Biemer
Karl Brace
David Brengel
Robert Cardwell
Ga-Yin Chan
Jane Cheun
Eric Choi
Amelia Dillon
David Dobson
Gregory Fabella
Stephen Fink
Albert Flounders
Vazul Gabor
Mark Hartman
Yung-Chieh Ho
Miriam Kroshinsky
Francis Lavalle
Jeffrey Levine
Michael McCrohan
Patrick McGuiness
Norma Perez
Cary Phillips
Triffin Psyhojos
Patrick Santavenere
Jill Schmidt
Richard Schulick
Claire Shambaugh
Jeffrey Sinsky
Elizabeth Squires
Laura Steefel
Steven Steinsaltz
Michael Vogelbaum
Mary Voytko

Baccalaureate Candidates in the School of Continuing Studies

Graduating with Honors

Thomas Eugene Arvin
Barbara A. Bitgood
Joseph N. Davis
Alma K. Estes
Gwen E. Harper
Arthur Charles Krigsman
James Joseph Schuelen

CANDIDATES FOR DEGREES

as of May 15, 1985

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive their degrees in person.

BACHELORS OF ARTS

in The School of Arts and Sciences

Margot Ellen Abels, of Livingston, N. J.
William Jay Abrams, of Greenwich, Conn.
Taro John Adachi, of Forest Hills, N. Y.
Paula Catherine Adams, of Hagerstown, Md.
William Dean Adams, of Washington, D. C.
Ana Inés Aguirre, of Bethesda, Md.
Bruce Howard Alpert, of Orange, Conn.
Sibyl Erná Anderson, of New York, N. Y.
Karen Angel, of New York, N. Y.
Richard Carl Anthony, of Annandale, Va.
Bradley Alan Asher, of Denver, Colo.
Joseph John Attar, of Baltimore, Md.
Paul Lea Axtell, of Warsaw, N. Y.
Lucas Baez, of Rio Piedras, Puerto Rico
Christopher Joseph Baker, of Crownsville, Md.
Richard Edward Barrans, Jr., of Towson, Md.
Christopher Harris Bartlett, of Hampden, Mass.
Kevin Patrick Beckett, of Allentown, Pa.
Catharine Gwynne Beier, of Stony Brook, N. Y.
Ashwin Radhakrishnan Belur, of Bethesda, Md.
Rosy Eliza Benarroch, of Barcelona, Spain
Peter Jonathan Bennett, of Stamford, Conn.
Conrad Jarden Berger, of University Park, Md.
William Ross Bernstein, of Short Hills, N. J.
Heidi Jean Berube, of Sudbury, Mass.
Elisha Raman Bet-Mansour, of New York, N. Y.
Kelley Ann Bevans, of Pound Ridge, N. Y.
David Steven Biderman, of Englewood, N. J.
Lisa Bladen, of Northampton, Mass.
Scott Nevin Blaker, of North Tarrytown, N. Y.
Helane Blumenthal, of Baltimore, Md.
Michael Raymond Book, of North Babylon, N. Y.
Stephen McCall Born, of Washington, D. C.
Rachael Ann Bradley, of New York, N. Y.
Howard Steven Bregman, of Rydal, Pa.
John Richard Brett-Smith, of Princeton, N. J.
Janice Lynn Brill, of Abington, Pa.
David Gary Browne, of Fair Lawn, N. J.
Paul Gardner Brunetta, of Goldens Bridge, N. Y.
Elizabeth Boothby Bryant, of Northampton, Mass.
Alice Bullard, of South Bend, Ind.
Tracie Lynn Butler, of Philadelphia, Pa.
James William Cahill, of Franklin Lakes, N. J.
Bruce Arthur Cairns, of Chapel Hill, N. C.
Robert Asher Cannon, of Scarsdale, N. Y.
Martha Shearer Caplan, of Baltimore, Md.
Curtis Lane Carpenter, of Phoenix, Ariz.
Robert Peter Carr, of Port-of-Spain, Trinidad
Walter William Carswell, Jr., of Cold Spring Harbor, N. Y.
Susan Marie Cassidy, of Alexandria, Va.
Jessie Lynn Chai, of Short Hills, N. J.
Toby Chu-chung Chai, of Salisbury, Md.
Bernard S. Chang, of Los Angeles, Calif.
Edward Hsiao-Kua Chang, of Silver Spring, Md.
Jih-Wen Chang, of Manila, Philippines
Pamela Husan-Lo Chang, of Hong Kong
Won Keun Chee, of Fountain Valley, Calif.
Kurt Yao-Hsun Chen, of Thousand Oaks, Calif.
Daniel Cheng, of Downers Grove, Ill.
Grace Hsiu-Wen Cheng, of Hamilton Township, N. J.
Ken Cheng, of Augusta, Maine
John Chungwoo Choi, of Glendale, Calif.
Ellen Chuang, of Silver Spring, Md.
Elaine Li-ai Chun, of New York, N. Y.
James T. Clancy, of Long Branch, N. J.
Gillian Frances Clark, of Brooklyn, N. Y.
Lisa Marie Clark, of Ithaca, N. Y.
Stuart Weldon Cobb, of Owensboro, Ky.
Bruce Charles Cohen, of Woodmere, N. Y.
Bruce Jeffrey Cohen, of Matawan, N. J.
Donn Joseph Colby, of Spring Valley, N. Y.
Roseann Margaret Colello, of Woodside, N. Y.
Kristin Conradi, of Ridgewood, N. J.
Sybol Sheron Cook, of Lusby, Md.

Timothy Allan Cook, of Baltimore, Md.
Maryanne Courtney, of Lake Ronkonkoma, N. Y.
Susan Carol Coventry, of Middletown, N. J.
Kamala Jean Crawley, of New York, N. Y.
Wayne Samuel Creadick, Jr., of Upper Marlboro, Md.
Sharon Patricia Crockett, of Silver Spring, Md.
Daniel Laurence Croteau, of Longmeadow, Mass.
James Joseph Cutrone, of Brooklyn, N. Y.
Mohammad Reza Dana, of Tehran, Iran
Lee Craig Davidson, of Annapolis, Md.
Adam Davis, of Baltimore, Md.
Beth Allison Davis, of White Plains, N. Y.
Michele Diane Davis, of Millersville, Md.
Richard Dimitrius Demopoulos, of Scarsdale, N. Y.
Rafael Cardoso Denis, of Rio de Janeiro, Brazil
Rosanne Shawn De Torres, of Warren, N. J.
Debra Jean Devoe, of Coronado, Calif.
Ravinder Singh Dhallan, of Beltsville, Md.
Paul Joseph DiMuzio, of Warminster, Pa.
Don Shimon Doering, of Baltimore, Md.
Mary Teresa Donofrio, of Wilmington, Del.
Stacey Leigh Dorfman, of Dallas, Texas
John William Dorsey, of Lutherville, Md.
Carroll Marie Doyle, of Jackson Heights, N. Y.
Laura Ann Drake, of Gainesville, Fla.
Jean Etienne Duboscq, of Baïgorry, France
Joshua Gary Eagle, of Washington, D. C.
Eric Elliot Edelstein, of Flushing, N. Y.
Stephanie Rogers Edgar, of Phoenix, Md.
Kathrin Lin Engisch, of Lake Hopatcong, N. J.
David Harris Epstein, of Yorktown Heights, N. Y.
James Lawrence Erwin III, of Shrewsbury, Mass.
Jonathan Land Evans, of Paget, Bermuda
Brian Earl Ferguson, of Westbury, N. Y.
Francisco Javier Fernández, of Irvington, N. J.
Thomas Augustine Ferraro, of Hawthorne, N. J.
Susan Joan Fetterman, of Woodbury Heights, N. J.
Leslie Lynn Fields, of Jefferson City, Mo.
Christopher G. Filippi, of Ivoryton, Conn.
Robert Alan Finkel, of New York, N. Y.
Keri Anne Fischer, of Ellicott City, Md.
Bradford Elliott Fitch, of Geneva, N. Y.
Eileen Marie Fitzgerald, of St. Petersburg, Fla.
Laura Elisa Fleischer, of Little Silver, N. J.
John Matthew Flynn, of Newark, Del.
Amy Sue Fogelstrom, of Ft. Wayne, Ind.
Albert John Folgueras, of Ellicott City, Md.
Lynn Anne Freidus, of Harrison, N. Y.
John Cameron Freund, of Baltimore, Md.
Edgar Friedman, of Garden City, N. Y.
Laura Eunice Fry, of Westwood, Mass.
Calvin Ken Fukuhara, of Pearl City, Hawaii
Anita Lalit Gadhia, of Baltimore, Md.
Laura Lee Gahagan, of Sidney, Ohio
Phillip Gales, of Frostburg, Md.
Randal David Getz, of Bel Air, Md.
William Milton Gillespie, of San Diego, Calif.
Dana Frederic Gillian, of Ames, Iowa
Elisabeth Rachel Gliick, of Wellesley, Mass.
Wendy Ann Golden, of Freehold, N. J.
Karen Louise Goll, of Easton, Md.
Diane Goodman, of Annapolis, Md.
Douglas Allan Gordimer, of Elizabeth, N. J.
Richard Scott Gordon, of Mamaroneck, N. Y.
Philip Roberts Gow, of South Wales, N. Y.
Wendy Sue Gracey, of Independence, Calif.
Granville Greene, of Baltimore, Md.
Mark Demian Griffo, of Potomac, Md.
Carolyn Mary Grimes, of Clifton Park, N. Y.
Angela Sarah Guarda, of Rome, Italy
Laura I. Gugenheim, of San Antonio, Texas
Ralph E. Gutmann, of Ardmore, Pa.
John Joseph Hagan III, of Canton, Mass.
Lowell Halvorson, of Meridian, Miss.
Sujata Kaul Hanjura, of Shillington, Pa.
Robin Dale Hanson, of Billings, Mont.
Richard Corey Harkaway, of Seaford, N. Y.
Melville French Heath II, of Baltimore, Md.
Alan Wayne Heaton, of Hopewell, N. J.
Sudarshan Hebbar, of Topeka, Kans.
James Michael Hedreen, of Seattle, Wash.
Michael Earl Hellberg, of La Mesa, Calif.
Susan Hendel, of Silver Spring, Md.
Mary Ann Hennrich, of Williamsville, N. Y.
Rebecca Leah Hirschfield, of Montvale, N. J.
Edward William Hoehn-Saric, of Baltimore, Md.
John Franklin Hopkins, Jr., of Barrington, Ill.
Paul J. Hopkinson, of Williamstown, N. J.
Arleen Margo Horowitz, of Baltimore, Md.
Gary Charles Horvath, of Boonton, N. J.
Paul Douglas Houk, of Baltimore, Md.
Theodore Carl Houk, of Baltimore, Md.
Kevin Barry Howes, of Silver Spring, Md.
Laurence Huang, of Port Washington, N. Y.
Tammy Noelle Huck, of Alexandria, Va.
David Lee Hudacek, of Morristown, N. J.
Barry Lee Hummel, Jr., of Stuart, Fla.
Kevin Curtis Hurley, of Cincinnati, Ohio
Taejin Im, of Churchville, Md.
Ron Samuel Israeli, of Floral Park, N. Y.
Anne Priest Jackley, of Alexandria, Va.
Nathaniel David Jaffe, of Oxford, Md.
Thalia D. Jeffres, of Oneonta, N. Y.
Thomas Courtney Jenkins, of Washington, D. C.
Clarice Ann Jones, of Baltimore, Md.
Debra Susan Joselson, of Jackson Heights, N. Y.
Marie-Louise Maguire Joyce, of Pacific Palisades, Calif.
David M. Kagan, of New York, N. Y.
Phillip James Kaiser, of Sparks, Nev.
Shaival Jayesh Kapadia, of Hong Kong
Caren Allyson Kaplan, of Roslyn, N. Y.
Dilara Ahmed Karamali, of Bethesda, Md.
Rebekah Belknap Karp, of Sharon, Conn.
Katherine Leandra Katsidhe, of New York, N. Y.
Laura T. Kaufman, of Norwalk, Conn.
Paul Kelley, of Clearwater Beach, Fla.
Suzanne Kestnbaum, of Tenafly, N. J.
Heidi Beth Kluegel, of Wayzata, Minn.
Celia Marion Kohn, of Wilton, Conn.
William Bergen Kouwenhoven, of Baltimore, Md.
Evan Keith Krakovitz, of New York, N. Y.
Thomas Timothy Kristek, of Binghamton, N. Y.

John Joseph Krumenacker, of Farmingdale, N. Y.
Joshua Charles Krumholz, of Tenafly, N. J.
Michael Karl Kuduk, of Cranford, N. J.
Janet Eileen Kuebler, of Trevose, Pa.
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George Jackson Diver, of Baltimore, Md.
David Paul Glock, of Baltimore, Md.
Jody Lynn Hilseberg, of Baltimore, Md.
Hardeo Jagat, of Baltimore, Md.
Maurice Linbergh Jones, of Bradshaw, Md.
Thomas Martin Liles, of Shrewsbury, Pa.
Isidoro J. Lopez, of Baltimore, Md.
Johnny Magwood, of Baltimore, Md.
Gregory Charles Malinski, of Baltimore, Md.
Jeri Darlene Metallo, of Baltimore, Md.
Timothy Joseph Nauman, of Baltimore, Md.
Terence Patrick O'Brien, of Cockeysville, Md.
Jeffrey W. Paul, of Edgewood, Md.
Duane S. Pinnix, of Pasadena, Md.
Gwendolyn Marie Pinnix, of Pasadena, Md.
Lloyd Henry Wilson, Jr., of Baltimore, Md.

BACHELORS OF SCIENCE

in The School of Continuing Studies

Thomas Eugene Arvin, of Westminster, Md.; A.A. Catonsville Community College, 1980. Management/Leadership.
Daniel Joseph Baker, of Baltimore, Md. Mathematics.
Claudia B. Barlow, of Kingsville, Md. Management.
Raymond Francis Beard, Jr., of Millers, Md. Management.
Barbara Nystrom Bitgood, of Laurel, Md. Psychology.
George M. Bojanowski, of Joppa, Md.; A.S. The Johns Hopkins University, 1981. Management.
Keith Bryan Brock, of Towson, Md. Life Sciences.
Arthur Frederick Brooks, of Forest Hill, Md.; A.S. Erie Community College, 1978. Management/Leadership.
Gwen Burke, of Baltimore, Md. General Business.
David Raymond Buschman, of Baltimore, Md. Management/Leadership.
Gordon Daniel Christmyer, of Parkton, Md.; A.A. Essex Community College, 1979. Management/Leadership.
Frank Howard Cramblitt, of Edgewater, Md. Mathematics.
Rose Marie Dalton, of Sparks-Glencoe, Md. Management/Leadership.
Joseph N. Davis, of Baltimore, Md. General Business.
Nancy Jean Davis, of Baltimore, Md.; A.A. Essex Community College, 1981. Psychology.
Myer Dixon, Jr., of Baltimore, Md. Psychology.
Barbara Mae Dull, of Blue Ridge Summit, Pa. Nursing.
James Melville Dunn III, of Baltimore, Md. Management.
Joann Corcoran Dyer, of Timonium, Md. Nursing.
Carol Ann Edwards, of Baltimore, Md. Psychology.
Myrna Brenneman Eshleman, of Emmitsburg, Md. Nursing.

Alma Kaye Estes, of Baltimore, Md. Physical Science.
Mary Colimore Frisbie, of Baltimore, Md. Nursing.
Charles Milton Gable, of Baltimore, Md. Psychology.
Jerri I. Goldstein, of Baltimore, Md. Social Sciences.
Kathleen Sellers Green, of Baltimore, Md. Nursing.
Joan Marie Gregorek, of Baltimore, Md. English.
Gloria Ruth Harper, of Baltimore, Md. Management/ Leadership.
Gwen Eichman Harper, of Damascus, Md. Social Sciences.
Patricia Noreen Holston, of Baltimore, Md. Nursing.
Catherine Soldan Horton, of Severna Park, Md. General Business.
Orin Meredith Hughes, of Baltimore, Md. English.
Penny L. Ittner, of Germantown, Md. Management/ Leadership.
Mary B. Kendall, of Baltimore, Md. Social Sciences.
Mary Elizabeth Kirby, of Baltimore, Md. Nursing.
Arthur Charles Krigsman, of Baltimore, Md. Life Sciences.
Terry S. Langbaum, of Baltimore, Md. Management/ Leadership.
James A. Lawrence, of Baltimore, Md. Mathematics.
Theresa Ann Leister, of Baltimore, Md. Management/ Leadership.
Leonard H. Lockhart, Jr., of Timonium, Md. Social Sciences.
Carol Anne Long, of Brooklandville, Md. Nursing.
Linda Mary Urbanski McCready, of Sykesville, Md. Nursing.
Patricia Ellen McSorley, of Baltimore, Md. Psychology.
Sally Louise Merchant, of Baltimore, Md. Management/ Leadership.
Barbara Jean Moore, of Baltimore, Md. Nursing.
Tracy Lee Myer, of Sykesville, Md. Mathematics.
Ari S. Neuberger, of Brooklyn, N.Y. Political Science.
Maureen B. O'Connor, of Baltimore, Md. Political Science.
Eugene Reed Oshrine, of Baltimore, Md. History
Jo Ann Mancini Peltz, of Baltimore, Md. Psychology.
Susan Gay Robbins, of Easton, Md. Psychology.
William Joseph Ruff, of Glen Burnie, Md. Social Sciences.
Peter John Russo, of Baltimore, Md. Social Sciences.
James Joseph Scheulen, of Baltimore, Md. Psychology.
Beverley Thornton Sener, of Baltimore, Md. Nursing.
Barbara Louise Smith, of Baltimore, Md. Nursing.
Clara Mae Smith, of Baltimore, Md. Nursing.
Joan E. Smith, of Baltimore, Md. Nursing.
Patricia Francis Smith, of Catonsville, Md.; A.A. The Johns Hopkins University, 1979. English.
Richard Deleaf Smith, of Baltimore, Md.; A.S. The Johns Hopkins University, 1977. Mathematics.
Mark Neal Snesil, of Baltimore, Md. General Business.
Henry Grier Stanton, of Catonsville, Md. Liberal Studies.
Rhoda Steinberg, of Baltimore, Md. Nursing.
Laura Lee Stinnette, of Baltimore, Md. Nursing.
William Edward Wade, of Columbia, Md. Management/ Leadership.
Samuel Wealcatch, of Baltimore, Md. Life Sciences.
Eileen Cooney Weglein, of Baltimore, Md. Liberal Studies.
Holly Rawlins Wieland, of Adelphi, Md. Nursing.
Caroline Florence Wilson, of Baltimore, Md. Nursing.
Mildred Cryer Willson, of Baltimore, Md. Social Sciences.
Mordecai M. Witkin, of Baltimore, Md. Life Sciences.

MASTERS OF SCIENCE

in The School of Continuing Studies

Anne H. Allsopp, of Arnold, Md.; B.A. American University, 1965. Education.

Helen Showell Alston, of Baltimore, Md.; B.S. Coppin State College, 1961. Education.

Sybil Levson Amitay, of Rockville, Md.; B.A. University of Connecticut, 1962. Education.

Shirley Ann Artson, of Baltimore, Md.; B.A. University of Baltimore, 1978. Education.

Asmat R. Ashai, of Columbia, Md.; B.A. Government College for Women, India, 1969. Education.

William Arthur Bailey, Jr., of Baldwin, Md. Education.

Nancy Louise Barker, of Bowie, Md.; B.A. University of Maryland, 1976. Education.

Norman Joseph Barker, of Baltimore, Md.; B.F.A. The Maryland Institute, 1981. Education.

Carolyn M. Barnes-Atkins, of Baltimore, Md.; B.S. The Johns Hopkins University, 1981. Education.

Jane Borys Bartel, of Hampstead, Md.; B.S. University of Maryland, 1976. Education.

Patricia Clark Battle, of Columbia, Md.; B.S. The Johns Hopkins University, 1984. Education.

Joyce Marie Becker, of Ellicott City, Md.; B.S. Frostburg State College, 1981. Education.

Greta L. Bekkeli, of Baltimore, Md.; B.S. Shippensburg State College, 1975. Education.

Kathleen Ann Berdar, of Bethel Park, Pa.; B.S. Edinboro State College, 1976. Education.

Linda Lee Birmingham, of Baltimore, Md. Education.

Joanne R. Blackstock, of Laurel, Md.; B.S. Indiana University of Pennsylvania, 1946; M.S. Pennsylvania State University, 1952. Education.

Clifford Glen Blake, of Denrigh Clarendon, Jamaica, West Indies; B.A.S. University of Waterloo, 1975. Applied Behavioral Science.

Diane Marie Boarman, of Baltimore, Md.; B.S. Towson State University, 1978. Education.

Edward S. Bradford III, of Stevenson, Md.; B.A. Middlebury College, 1977. Education.

Sally A. Bradley, of Baltimore, Md.; B.A. Cascade College, 1961. Applied Behavioral Science.

Richard Carmen Brocato, of Catonsville, Md.; B.S. University of Maryland, 1978. Education.

Elizabeth Harner Brooks, of Baltimore, Md.; A.A. Harford Community College, 1976; B.S. Towson State University, 1980. Education.

Rebecca Elaine Burch, of Arlington, Va.; B.S. Longwood College, 1974; M.S. Madison College, 1976. Education.

Victoria Aquirre Bustamante, of Columbia, Md.; Lic. in Psy. Universidad Catolica Andres Bello, 1974. Education.

Kim Kathleen Callison, of Annapolis, Md.; B.S. University of Maryland, 1978. Education.

Debbie W. Cameron, of Baltimore, Md.; B.A. Averett College, 1972. Education.

Moussa S. Jaafar Charafeddine, of Cockeysville, Md.; M.D. People Friendship University, 1972. Education.

Lori Beth Chasnoff, of Columbia, Md.; B.S. Guiford, College, 1983, Urban Planning and Policy Management.

Rebecca Gagalis Chittum, of Baltimore, Md.; B.A. University of South Florida, 1975. Urban Planning and Policy Management.

Diane Zeola Christopher, of Baltimore, Md.; B.S. Towson State University, 1978. Education.

Nancy Banks Civin, of Baltimore, Md.; B.A. Smith College, 1970. Education.

Dolores Webster Clark, of Severna Park, Md.; B.A. Swarthmore College, 1954. Education.

Linda Carr Corbin, of Owings Mills, Md.; A.A. Pine Manor Jr. College, 1971; B.S. University of Virginia, 1973. Education.

Craig Stephen Cummings, of Columbia, Md.; B.S. University of Maryland, 1976. Education.

Rae Anthony Davies, of Kingston, Jamaica, West Indies; Ph.D. Loughborough University, 1972. Applied Behavioral Science.

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Nancy Anne de Nobel, of Silver Spring, Md.; B.S. University of Maryland, 1979. Education.

Elizabesh Ratterman DePaulo, of Baltimore, Md.; B.A. Edgecliff College, 1970. Education.

Janice Gwen Derrickson, of Baltimore, Md.; B.A. Gettysburg College, 1979; B.S. University of Florida, 1980. Education.

Kathryn Clair Docie, of Baltimore, Md.; B.A. Agnes Scott College, 1979. Applied Behavioral Science.

Stephen Donnelly, of Baltimore, Md.; B.S. Towson State University, 1983. Urban Planning and Policy Management.

Marion Marquette Dozier, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1979. Applied Behavioral Science.

Sarah Carolyn Duff, of Baltimore, Md.; B.A. Wilson College, 1953. Education.

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Linda Elizabeth Emmerich, of Ellicott City, Md.; A.A. Catonsville Community College, 1980; B.A. Goucher College, 1982. Education.

Susan M. Engel, of Towson, Md.; B.A. Loyola College, 1977. Education.

Mary Claudette Evans, of Columbia, Md.; B.S. The Johns Hopkins University, 1981. Applied Behavioral Science.

Bessie Yvonne Everett, of Baltimore, Md.; B.A. Goucher College, 1973; M. F. A. Howard University, 1976. Applied Behavioral Science.

Lynn Reed Farmer, of Baltimore, Md.; B.S. James Madison University, 1972. Education.

Anne Natalie Feierstein, of Baltimore, Md.; B.S. Towson State University, 1980. Education.

Mary P. Finn, of Baltimore, Md.; R. N. Ottawa University, 1963; B.S.N., 1967. Education.

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Lydia Sylvia Foster, of Baltimore, Md.; B.S. Morgan State University, 1972. Education.

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Bonnie Jean Gaffney, of Timonium, Md.; B.S. University of Maryland, 1964. Education.

Dorothy Louise Galdun, of Cockeysville, Md.; B.S. Mount Saint Mary's College, 1982. Education.

Joseph Michael Gatto, of Baltimore, Md.; B.S. Towson State University, 1978. Urban Planning and Policy Management.

Carol Ann Gaul, of Baltimore, Md.; B.S.N. University of Pennsylvania, 1971. Education.

Robert Charles Geiger, Jr., of Baltimore, Md.; B.A. University of Dayton, 1981. Education.

Jean Adrienne Genson, of Upper Marlboro, Md.; B.S. The Johns Hopkins University, 1981. Applied Behavioral Science.

Cynthia K. Goldberg, of Baltimore, Md.; B.A. University of Pennsylvania, 1980. Education.

Howard Alan Gradet, of Baltimore, Md.; B.A. University of Maryland, 1968; M.Ed. Loyola College, 1976. Education.

Marjorie Bender Gregerman, of Baltimore, Md.; B.S. Tufts University, 1956. Education.

Mark B. Gunderson, of Randallstown, Md.; B.A. University of Maryland, Baltimore County, 1981. Education.

Claire Gately Gunster-Kirby, of Poolesville, Md.; B.A. University of Maryland, 1973. Applied Behavioral Science.

Nadine Judith Haas, of Forest Hill, Md.; B.S. Towson State University, 1978. Education.

Wilma Steider Hadlock, of Baltimore, Md.; B.S. Western Michigan University, 1965. Education.

Michelle Allyce Halbig, of Crownsville, Md.; B.S. Millersville State College, 1977. Education.

Carolyn R. Hall, of Jessup, Md.; B.S. Towson State University, 1979. Education.

Sandra Dickson Hamilton, of Frederick, Md.; B.S. Sterling College, 1963. Education.

Deborah Susan Hardy-Ribakow, of Baltimore, Md.; B.A. University of Maryland, 1980. Education.

Kathryn Ann Harper, of Reisterstown, Md.; B.S. Mount Saint Mary's College, 1982. Education.

Denise Lynne Clowney Harris, of Columbia, Md.; B.S. National College of Education, 1975. Education.

Marlene P. Harris, of Baltimore, Md.; B.S.N. University of Vermont, 1956. Applied Behavioral Science.

David M. Heath, of Baltimore, Md.; B.A. Swarthmore College, 1959. Education.

Mary F. Herlihy, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1975. Education.

Gabriel Herzig, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1983. Education.

Joyce Marie Higgins, of Laurel, Md.; B.S. University of Nebraska at Omaha, 1976. Education.

Gloria Moore Holloman, of Seat Pleasant, Md.; B.S. Elizabeth City State University, 1966. Education.

Thomas Scott Horn, of Cockeysville, Md.; B.S. State University College at Oswego, 1976. Education.

Terence Stirling Hughes, of Columbia, Md.; B.S. University of State of New York, 1982. Education.

Barbara Ann Huhn, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1979. Education.

Cathy Ann Hunt, of Joppa, Md.; B.S.N. Western Carolina University, 1977. Education.

Barbara Hoffman Hunter, of Jacksonville, Fla.; B.S. University of Maryland, 1973. Applied Behavioral Science.

Karen Barker Huppmann, of Catonsville, Md.; B.A. University of Maryland, 1978. Education.

Linda Adler Hurwitz, of Baltimore, Md.; B.A. Duke University, 1980. Education.

Jean W. Israel, of Ellicott City, Md.; B.S. Towson State University, 1957. Education.

Diane Hughes Ivan, of Jessup, Md.; B.S. University of Maryland, 1975. Education.

Eliahu Jacobs, of Staten Island, N. Y.; B.T.C. Ner Israel Rabbinical College, 1983. Education.

Charles F. Jewitt, of Glencoe, Md.; B.A. Colby College, 1974. Education.

Leola Pearl Johnson, of Baltimore, Md.; B.S. Morgan State University, 1974. Education.

Neville St. Hugh Rowe Johnson, of Kingston, Jamaica, West Indies; B.S. University of the West Indies, 1966. Applied Behavioral Science.

Helen Christine Jones, of Baltimore, Md.; B.S. University of Maryland, 1969. Education.

Jacklyn Dawn Jones, of Ellicott City, Md.; B.S. University of Maryland, 1977. Education.

Karen Leslie Jones, of Hydes, Md.; B.A. Loyola College, 1981. Education.

Beverly May Joseph, of Bethesda, Md.; B.A. University of Maryland, 1959. Education.

Lois Deborah Karp, of College Park, Md.; B.S. University of Maryland, 1976. Education.

Natalie Kauffman, of Towson, Md.; B.S. Bucknell University, 1981. Applied Behavioral Science.

Charles Bernard Kelly III, of Baltimore, Md.; B.S. Loyola College, 1964. Education.

June Gilvane Kerger, of Columbia, Md.; B.S. University of Maryland, 1978. Education.

Gloria Samms Knight, of Kingston, Jamaica, West Indies. Applied Behavioral Science.

Eleanor Knox, of Baltimore, Md.; B.S. Morgan State University, 1973. Education.

Michele Lee Koff, of Baltimore, Md.; B.S. University of Rhode Island, 1969; M.S. Cornell University, 1971. Applied Behavioral Science.

Debra Lynn Kotaska, of Glen Burnie, Md.; B.S. State University College at Buffalo, 1981. Education.

Diane Lee Krasner, of Baltimore, Md.; B.A. The Johns Hopkins University, 1975; M.A. 1976; B.S.N. University of Maryland, 1979. Education.

Mary Catherine Kriebel, of Baltimore, Md.; B.S. Pennsylvania State University, 1976. Education.

Bonnie S. Kunel, of Baltimore, Md.; B.S. University of Illinois, 1970; M.Ed. National College of Education, 1976. Education.

Joan E. Dunn Kurth, of Ventura, Calif.; B.A. North Central College, 1970. Education.

Janice Funkhouser Larsen, of Bel Air, Md.; B.S.N. The Johns Hopkins University, 1964. Education.

Lillian Rae Lazen, of Baltimore, Md.; M.A. Ohio State University, 1962. Education.

Carolyn Suhr Le Borys, of Baltimore, Md.; B.A. Towson State University, 1981. Education.

Michaelen Friesser LeHew, of Perry Hall, Md.; B.S. Towson State University, 1980. Education.

Anne Vaughan Limbrick, of Baltimore, Md.; B.A. Virginia Commonwealth University, 1976. Applied Behavorial Science.

Robert W. Littell, of McDonogh, Md.; B.A. Colorado College, 1962. Education.

Phyllis R. Lloyd, of Baltimore, Md.; B.S. Towson State University, 1975. Education.

Margaret Jean Longworth, of San Jose, Costa Rica; B.P.T. University of Manitoba, 1979. Education.

Barbara Saunders Lowe, of Columbia, Md.; B.A. Marshall University, 1963; M.Ed. The Johns Hopkins University, 1978. Education.

Jacquelyn M. Magness, of Bel Air, Md.; B.A. University of Tennessee at Chattanooga, 1977. Urban Planning and Policy Management.

Sherry Christine Main, of Frederick, Md.; B.S. University of Maryland, 1975. Education.

Reva Ilene Mandelbaum, of Stevenson, Md.; B.A. State University of New York at Binghampton, 1980. Education.

Joseph Ceasar Martin, of Baltimore, Md.; M.A. Antioch University, 1981. Applied Behavioral Science.

Andrew Watson McCosh, of Airville, Pa.; B.S. Towson State University, 1976. Education.

Pamela Jean Rupp McDavid, of Baltimore, Md.; B.S. Towson State University, 1979. Education.

Phyllis G. McRobie, of Sykesville, Md.; B.S. Frostburg State College, 1965. Education.

Anthony Colon Melvin, of Bel Air, Md.; M.A. Central Michigan University, 1975. Education.

Donna Harryman Miller, of Millersville, Md. B.A. Waynesburg College, 1969. Education.

Sally Ann Miller, of Pasadena, Md.; B.S. University of Maryland, 1979. Education.

Mary Jane Mitchell, of Ellicott City, Md.; M.Ed. Bowie State College, 1972. Education.

Melinda R. Rigger Mogowski, of Baltimore, Md.; B.A. Randolph-Macon College, 1977; M.S. The Johns Hopkins University, 1983. Education.

Christopher Michael Molesso, of Crofton, Md.; B.S. State University College at Buffalo, 1978. Education.

Lisa J. Molesso, of Crofton, Md.; B.S. State University College at Buffalo, 1979. Education.

Sherry Jeanne Moorshead, of Baltimore, Md.; B.S. James Madison University, 1978. Education.

Jane Loughland Mullen, of Baltimore, Md.; B.A. Lynchburg College, 1978. Education.

Glenn Robert Munch, of Baltimore, Md.; B.S. Ohio State University, 1971. Education.

Diane Rosen Nemett, of Stevenson, Md.; B.S. Ithaca College, 1970. Education.

Patricia Jean Nervino, of Baltimore, Md.; B.S.N. State University College at Brockport, 1977. Education.

Margaret Kidder Newton, of Hampstead, Md.; B.S. Albright College, 1980. Education.

Carol Nizzardini, of Timonium, Md.; B.S. The Johns Hopkins University, 1977. Education.

Catherine DeCourt Nugent, of Baltimore, Md.; A.A. The Johns Hopkins University, 1979; B.A. Antioch University, 1981. Applied Behavioral Science.

Jay F. O'Connor, of Baltimore, Md.; B.A. Saint Mary's Seminary and University, 1970; S.T.M., 1980. Education.

Richard Francis O'Donnell, of Mechanicsville, Md.; M.S. Iona College, 1976. Education.

Barbara Ann Ondo, of Baltimore, Md.; B.S. Kutztown State College, 1980. Education.

Sallie Hipp Packham, of Cockeysville, Md.; B.S. University of Maryland, 1957. Applied Behavioral Science.

Mary Clare Pahl, of Hyattsville, Md.; B.S. University of Maryland, 1977. Education.

Marya Wiedel Pecukonis, of Dayton, Md.; B.S. University of Maryland, 1980. Education.

William Petcovic, of Columbia, Md.; M.S. Rutgers University, 1974. Applied Behavioral Science.

Marva Aldyth Phillips, of Kingston, Jamaica, West Indies; B.A. Wolmers Girls School, Jamaica, 1960. Applied Behavioral Science.

Edith Daryl Picken, of Baltimore, Md.; B.S. Towson State University, 1978. Education.

LaVerne Pitts, of Abingdon, Md.; B.S. University of Maryland, 1973. Education.

Jane Schapman Powell, of Silver Spring, Md.; B.S. Washington University, 1975. Education.

Martha Ann Provonsha, of Baltimore, Md.; B.M. Bowling Green State University, 1974; M.M.Ed. Towson State University, 1981. Education.

Lisa R. Rappaport, of Rockville, Md.; B.A. American University, 1979. Education.

Debra Ann Ray, of Glen Burnie, Md.; B.S. University of Maryland, 1977. Education.

Mary Michelle Reisinger, of Baltimore, Md.; B.S. Towson State University, 1977. Education.

Diana Garstang Richards, of Greenbelt, Md.; B.S. University of Maryland, 1966. Education.

Naomi Parsons Richardson, of Baltimore, Md.; B.S. Morgan State University, 1973. Education.

Glenda Kay Riddle, of Baltimore, Md.; B.S.N. University of Maryland, 1979. Education.

Hilary Ann Robertson, of Kingston, Jamaica, West Indies; B.A. University of the West Indies, 1975. Applied Behavioral Science.

Lesley Carol Robinson, of Columbia, Md.; B.A. George Washington University, 1971. Education.

Paul Donald Rohde, of Greenbelt, Md.; B.A. University of Maryland, 1972. Education.

Phyllis Rae Rosen, of Frederick, Md.; B.S. Ball State University, 1974. Education.

Ellen Wiener Rosenbaum, of Owings Mills, Md.; B.A. New York University, 1968. Applied Behavioral Science.

Gail Friedman Rubenstein, of Owings Mills, Md.; B.S. University of Maryland, 1965. Applied Behavioral Science.

Margarita Salah, of Baltimore, Md.; B.S. Towson State University, 1979. Education.

Claire J. Salkowski, of Bel Air, Md.; B.A. Goucher College, 1974. Education.

Henry Joseph Salmon, of Beaconsfield, Quebec, Canada. Applied Behavioral Science.

Barbara Lou Salzman, of Columbia, Md.; B.S. Coppin State College, 1977. Education.

Joan Marie Schaer, of Baltimore, Md.; B.S.C. Ohio State University, 1962. Education.

Deborah Anne Schaub, of Ellicott City, Md.; B.S. Frostburg State College, 1977. Education.

Patricia Ann Schulte, of Abingdon, Md.; B.S. Towson State University, 1981. Education.

Joanna M. Schwartz, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980; M.A., 1984. Education.

Nancy Lea Schwartz, of Baltimore, Md.; B.S. State University College at New Paltz, 1979. Education.

Mark James Shanty, of Baltimore, Md.; B.S. Morgan State University, 1981. Education.

Marynell Hughes Slusark, of Annapolis, Md.; B.S. Duquesne University, 1978. Education.

Patricia Joy Smith, of Baltimore, Md.; A.A. Catonsville Community College, 1976; B.S. Towson State University, 1978. Education.

Dorothy Robison Soethe, of Arnold, Md.; B.S. Coppin State University, 1975. Education.

Allision Lyn Sokoll, of Columbia, Md.; B.A. Case-Western Reserve University, 1978. Education.

Mary B. Spinola, of Simpsonville, Md.; B.S. University of Maryland, 1974. Education.

Scott Steinman, of Baltimore, Md.; B.T.L. Ner Israel Rabbinical College, 1983. Education.

Claudine M. Steisel, of Philadelphia, Pa.; B.A. Goucher College, 1980. Education.

Barbara Jean Stewart, of Baltimore, Md.; B.S. University of Maryland, 1976; M.L.A. The Johns Hopkins University, 1983. Education.

Sirlilar Jessie Stokes, of Baltimore, Md.; B.S. Coppin State College, 1979. Education.

Patricia Troiano Tanczyn, of Timonium, Md.; B.A. Towson State University, 1976. Education.

Shirley Tepper, of Baltimore, Md.; B.S. University of Wisconsin, 1957. Education.

Mary Kay Thierer, of Eldersburg, Md.; B.A. Loyola College, 1980. Education.

Wilbert Tomlinson, of Old Harbour, Jamaica, West Indies; M.B.A. University of Miami, 1978. Applied Behavioral Science.

Nancy Brown Toms, of Baltimore, Md.; B.A. Randolph-Macon Women's College, 1980. Education.

Carole Kearney Trone, of Clarksville, Md.; B.S. Towson State University, 1981. Education.

Margaret Beggs Turner, of Timonium, Md.; B.S. Mount Saint Mary's College, 1982. Education.

Deborah Ogier Twillman, of Fork, Md.; B.S. Towson State University, 1973. Applied Behavioral Science.

Helen N. Tzavella-Fisher, of Athens, Greece; B.A. University of Athens, 1979. Education.

Denise Marie Van Essen, of Baltimore, Md.; B.A. Towson State University, 1978. Applied Behavioral Science.

Laureen Weaver, of Indian Head, Md.; B.S. Towson State University, 1976. Education.

David Willard Webb, of Eldersburg, Md.; B.S. University of Baltimore, 1976. Applied Behavioral Science.

David Allen Weisberg, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Education.

Marcia Cohen Wellington, of Columbia, Md.; B.A. University of Maryland, Baltimore County, 1969. Education.

Carole Shirley Wellner, of Silver Spring, Md.; B.A. University of Wisconsin, 1957. Education.

Robin Wells, of Setauket, N. Y. Education.

Richard Edgar White, Jr., of Ellicott City, Md.; M.Ed. Towson State University, 1978. Education.

Margaret Eva Wilson, of Columbia, Md.; B.A. Wittenberg University, 1970. Education.

Wendy Rae Wyant, of Baltimore, Md.; B.S. Pennsylvania State University, 1978. Education.

Melody G. Young, of New Castle, Del.; B.A. Wake Forest University, 1966. Education.

Gina Marie Zingaro, of Baltimore, Md.; B.A. Goucher College, 1981. Applied Behavioral Science.

MASTERS OF EDUCATION

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MASTERS OF LIBERAL ARTS

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Jane L. Dalrymple, of Baltimore, Md.; B.F.A. University of Alabama, 1977; M.F.A. The Maryland Institute, 1981.

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Linda Denny Knox, of Baltimore, Md.; B.A. Mills College, 1956.

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Mark Wesley McComas, of Severn, Md.; B.A. University of Maryland, Baltimore County, 1975.

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LaVerl Moore, of Baltimore, Md.; B.A. Goucher College, 1981.

Janet Estelle Moses, of Baltimore, Md.; B.A. Baldwin-Wallace College, 1968; B.A. Loyola College, 1980.

Michael Richard Naver, of Baltimore, Md.; B.A. Columbia College, 1954.

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Stephen Lester Pankey, of Cockeysville, Md.; M.A. Michigan State University, 1975.

Margaret W. Patten, of Baltimore, Md.; B.S. University of Baltimore, 1983.

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Lawrence Arthur Raum, of Glenwood, Md.; B.S. University of Maryland, 1975; M.A.S. The Johns Hopkins University, 1979.

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Samuel Duvall Tress, of Baltimore, Md.; B.S. University of Maryland, 1977.

Gerry Marie Watkins, of Fallston, Md.; A.A. Essex Community College, 1972; M.S. Towson State University, 1981.

Wilson Bothwell Watson, of Baltimore, Md.; B.A. Washington College, 1960; M.A. Morgan State University, 1968.

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MASTERS OF ADMINISTRATIVE SCIENCE

in The School of Continuing Studies

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Rishi R. Bhardwaj, of Baltimore, Md.; M.A. Agra University, 1964.

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Joseph W. Buta, of Rockville, Md.; B.S. Springfield College, 1972.

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Ali Daneshvar, of Lutherville, Md.; M.D. Tehran University, 1971.

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Mary Sampson Deblauw, of Millersville, Md.; A.A. Catonsville Community College, 1977; B.S. The Johns Hopkins University, 1982.

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Robert W. Del Percio, of Newark, Del.; B.S. Widener College, 1973.

Ranjana Desai, of Columbia, Md.; B.A. Elphinstone at Bombay, 1964; M.A. University of Bombay, 1966.

Carol Wasserman Diener, of Columbia, Md.; M.S. State University of New York at Albany, 1972.

Michael Robert DiGiacomo, of Baltimore, Md.; B.S. Towson State University, 1977.

Michael Sean Doyle, of White Hall, Md.; B.S. Towson State University, 1977.

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Beverly Ann Duvall, of Columbia, Md.; B.S. Howard University, 1979.

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Carol Young Franklin, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1964.

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Stephen Mark Gerardi, of Baltimore, Md.; B.S. Point Park College, 1971; B.S. University of Maryland, 1975.

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Sharon Elizabeth Grandy, of Baltimore, Md.; B.S. Coppin State College, 1976.

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Maria Dolores Llorens Infanzon, of Baltimore, Md.; B.S. Babson College, 1982.

Michael Francis Ivan, of Jessup, Md.; B.S. University of Maryland, 1978.

Robert Christopher Jensen, of Baltimore, Md.; B.A. University of Baltimore, 1978.

Deborah Ann Johnson, of Randallstown, Md.; B.S. Hood College, 1980.

Ophelia W. Jones, of Randallstown, Md.; B.S. Coppin State College, 1980.

Ralph A. Jordan, of Columbia, Md.; B.S. Millersville State College, 1974.

Francis Xavier Kadyszewski, of Baltimore, Md.; B.A. Mount Saint Mary's College, 1976.

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Karen Lea Kolan, of Severna Park, Md.; B.F.A. The Maryland Institute, 1979.

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Henry Arnold Leu, of Ellicott City, Md.; B.A. Bethany College, 1979.

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Gregory Steven Matthews, of Baltimore, Md.; B.S. Coppin State College, 1976.

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Blair Justin Miller, of Baltimore, Md.; B.S. University of Maryland, 1977.

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Dean Paul Moneski, of Severn, Md.; B.S. University of Maryland, 1981.

Christine Monroe Moore, of Baltimore, Md.; B.A. Trinity College, 1974.

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Mark Allan Nerenberg, of Columbia, Md.; B.A. University of Maryland, 1972.

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Maria Zelinsky Oliver, of Laurel, Md.; B.S. University of Maryland, 1967.

Thomas Osmanski, of St. Charles, Ill.; B.S. Washington College, 1963.

Beverly Ann Osteen, of Silver Spring, Md.; B.S. Ball State University, 1970.

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Shubha Narayan Ramapriyan, of Columbia, Md.; B.A. A.P.S. College (India), 1969; B.S. Alabama Agricultural & Mechanical College, 1976.

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Glenn Lisa Saltzman, of Baltimore, Md.; B.A. Goucher College, 1979.

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Arnold Lee Scher, of Randallstown, Md.; B.S. University of Baltimore, 1966.

Sheri Beth Scott, of Baltimore, Md.; B.A. Goucher College, 1982.

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Moira Ann Sheehan, of Baltimore, Md.; B.S. University of Maryland, 1981.

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William Thomas Shores, Jr., of Cockeysville, Md.; B.A. Towson State University, 1974.

Susan J. Silanskis, of Hollywood, Md.; B.A. Saint Mary's College of Maryland, 1979.

Harry Algin Sizelove, of Baltimore, Md.; B.S. University of Maryland, 1979.

Algis Peter Skudzinkas, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1982.

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Eric George Spengler, of Cheshire, Conn.; B.S. Temple University, 1980.

Mark Victor Stein, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1981.

Michael Dennis Sterner, of Fleetwood, Pa.; B.S. Millersville State College, 1977.

Robert Michael Stevens, of Glen Burnie, Md.; B.S. Towson State University, 1976.

Deborah Jean Stowers, of Baltimore, Md.; B.A. Thiel College, 1973.

Patricia JoAnne Swisher, of Columbia, Md.; B.S. University of Maryland, 1978.

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Mark Kevin Ulman, of Columbia, Md.; B.S. West Virginia University, 1978; B.S. Loyola College, 1981.

Nancy Hopkins Valentine, of Laurel, Md.; B.A. Marquette University, 1967.

Beth Talhelm Wade, of Cockeysville, Md.; B.F.A. Maryland Institute, 1978.

Marianne Weis, of Baltimore, Md.; B.A. University of Maryland, 1977.

Diana Rena Williams, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1981.

My Kieu Nguyen Wilson, of Millersville, Md.; B.A. University of Maryland, Baltimore County, 1975.

Susan Howle Winstead, of Arnold, Md.; B.A. University of North Carolina, 1972.

Raymond Reese Wright III, of Elkridge, Md.; B.S.M.E. General Motors Institute, 1978.

Richard Lee Wright, of Towson, Md.; B.A. Western Maryland College, 1977.

Carolyn York, of Baltimore, Md.; B.A. University of North Carolina, 1978.

Kathy Ann Zabchin, of Greenbelt, Md.; B.S. University of Maryland, 1982.

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in The School of Continuing Studies

Thomas Kenny Carey, of Baltimore, Md.; B.A. University of Virginia, 1971; M.Ed., 1974.

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Edith M. Donohue, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1960; M.S. The Johns Hopkins University, 1981.

Barbara May Finnegan, of Chestertown, Md.; B.A. Washington College, 1965; M.Ed. The Johns Hopkins University, 1973.

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Dale Michael Johnson, of Baltimore, Md.; M.S. Morgan State University, 1979.

Mark F. Kodack, of Glen Daniel, W.Va.; B.A. Kansas State Teachers College, 1972; M.S., 1976.

Roderick Maurice Moragne El, of Owings Mills, Md.; B.A. Morgan State University, 1969; M.S. The Johns Hopkins University, 1983.

Eugene Michael O'Hara, of Reisterstown, Md.; B.S. University of Baltimore, 1975; M.S., 1978; M.L.A. The Johns Hopkins University, 1982.

Irma Fried Rosenblatt, of Chevy Chase, Md.; M.A. American University, 1975.

Karl Ritchie Schlotterbeck, of Timonium, Md.; B.A. The Johns Hopkins University, 1970; M.A. Towson State University, 1973.

Patricia Lynn Schuster, of Rosedale, Md.

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Leonard Adam Sipes, Jr., of Baltimore, Md.; M.S. University of Baltimore, 1980.

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MASTERS OF MUSIC

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Joan Baumstein Bob, of Baltimore, Md.; B.A. State University of New York at Buffalo, 1970. Viola.

Eugene Charles McGregor Boyle, Jr., of Columbia, S.C.; B.M. University of South Carolina, 1981. Guitar.

Riccardo Chiapetta, of Oneonta, N.Y.; B.M. State University College at Potsdam, 1983. Voice.

Daria Lynn Duh, of Bethlehem, Pa.; B.M. Peabody Conservatory of Music, 1982. Piano.

Jocelyn Edey, of Sydney, Australia; B.M. University of Sydney, 1979. Flute.

Cathy Leona Ferguson, of Ft. Collins, Colo.; B.M. Colorado State University, 1982. Violin.

Nathaniel Andrew Gunod, of Silver Spring, Md.; B.M. Peabody Conservatory of Music, 1980. Guitar.

Prudence Mercer Haloski, of Annapolis, Md.; B.A. West Virginia Wesleyan College, 1969. Music Education.

Diane Louise Hidy, of San Francisco, Calif.; B.M. University of Southern California, 1982. Piano.

Alisa Anne Jenkins, of Charlotte, N.C.; B.M. Queens College, 1983. Voice.

Elisa Tamar Kahn, of Brooklyn, N.Y.; B.S. Brooklyn College 1983. Composition.

Ronald Henry Kaye, of Milwaukee, Wis.; B.M. St. Olaf College, 1983. Oboe.

Kurt Kehler, of Sunbury, Pa.; B.M. Susquehanna University, 1983. Piano.

Le Zu-Feng, of Shanghai, China; Certificate, Shanghai Conservatory of Music, 1964. Flute.

Amy Lin, of Huntington Beach, Calif.; B.A. The Johns Hopkins University, 1982. Piano.

Harriett Linnenbom, of Greenbelt, Md.; B.A. University of Maryland, 1977. Piano.

Elizabeth Wadsworth Moak, of Oxford, Miss.; B.M. Peabody Conservatory of Music, 1983. Piano.

Timothy A. Murphy, of Laurel, Md.; B.M. Peabody Conservatory of Music, 1979. Organ.

Suzanne Newcomb, of Columbus, Ohio; B.M. University of Cincinnati, 1983. Piano.

Robert Damian Newell, of Metairie, La.; B.A. University of New Orleans, 1982. Instrumental Conducting.

Lauren Patriquin, of Wakefield, Mass.; B.M. Boston University, 1976. Violoncello.

Ronald Michael Pearl, of Baltimore, Md.; B.M. San Francisco Conservatory of Music, 1977. Guitar.

Nicholas Scott Pender, of Washington, D.C.; B.A. Georgetown University, 1982. Composition.

Muriel Bennett Price, of University Park, Md.; B.M. Howard University, 1983. Piano.

Catherine Sentman, of Wilmington, Del.; B.A. College of William and Mary, 1979. Voice.

David Lowell Solem, of Lanham, Md.; B.M. Peabody Conservatory of Music, 1984. Piano.

Richard Louis Spittel, of Arbutus, Md.; B.S. Towson State University, 1976; M.M. Peabody Conservatory of Music, 1984. Music Education.

Sarah Ellen Spurgeon, of Columbia, Mo.; B.M. University of Missouri at Columbia, 1982. Voice.

Gregory Alan Taboloff, of Oakland, Calif.; B.M. Peabody Conservatory of Music, 1984. Piano.

Valerie Rose Taylor, of Dallas, Texas; B.A. Harvard University, 1979. Instrumental Conducting.

Daria Telizyn, of Toronto, Ontario, Canada; B.M. University of Western Ontario, 1981. Piano.

David Ray Thacker, of Roanoke, Va.; B.M. James Madison University, 1981. Violin.

Antoinette Louise Toppin, of Ettrick, Va.; B.M. University of North Carolina, 1983. Piano.

Nancy Chiyoko Tsuyuki, of Scarsdale, N.Y.; B.A. Goucher College, 1982. Music Education.

Rosanna E. Tufts, of Duxbury, Mass.; B.A. Goucher College, 1982. Music History and Literature.
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Stephen Brady Weinberg, of Fayetteville, N.Y.; B.A. Humboldt State University, 1981. Piano.

Lisa J. Wienhold, of Eagle River, Alaska; B.M. Peabody Conservatory of Music, 1982. Flute.

Miranda Ting Wai Wong, of Victoria, British Columbia, Canada; B.M. University of Victoria, 1982. Piano.

William Gerard Zvarick, of Collegeville, Pa.; B.M. Peabody Conservatory of Music, 1982. Piano.

ARTISTS DIPLOMAS

in The Peabody Conservatory of Music

Marcantonio Barone, of Bryn Mawr, Pa.; B.M. Curtis Institute of Music, 1982. Piano.

Paul Maillet, of Baltimore, Md.; B.M. Eastman School of Music, 1980; M.M. Peabody Conservatory of Music, 1982. Piano.

Sandra Sonia Shapiro, of Baltimore, Md.; B.M. University of Southern California, 1982. Piano.

Barry C. Trent, of Jarrettsville, Md.; Performer's Certificate, B.M. Peabody Conservatory of Music, 1984. Bassoon.

MASTERS OF SCIENCE

in The School of Hygiene and Public Health

Bradley Owen Boekeloo, of Kalamazoo, Mich.; B.A. Kalamazoo College, 1977. Behavioral Sciences and Health Education.

Analysis of the Bortner Type A Scale as a Diagnostic Tool for Coronary-Prone Behavior in Adolescents.

Sharon Papciak, of Baltimore, Md.; B.S. University of Rhode Island, 1976. Environmental Health Sciences.

Survival of Poliovirus RNA in the Aquatic Environment.

Eva Maria Sereghy, of McLean, Va.; B.A. Newton College, 1971. Health Policy and Management.

Social Support, Perceived Health, and Smoking Behavior in Women.

Elizabeth Anne Sheppard, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Biostatistics.

Analysis of Auditory Startle Response Data.

Wende Storer Skidmore, of Port Deposit, Md.; B.A. Hampshire College, 1980. Population Dynamics.

Contraceptive Decision-Making Processes Among Teenaged Girls.

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Evaluation of the Intestinal Mast Cells and Goblet Cells of Rats with Graft-versus-Host Disease.

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Evaluation of a Case Management Approach on Coordination of Homecare Services for the Elderly.

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Changes in the Level of 3′-nucleotidase Activity of Leishamania donovani Promastigotes in Axenic Culture.

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MASTERS OF ARTS IN INTERNATIONAL AFFAIRS

in The School of Advanced International Studies

Francesco Maria Castiglioni, of Buenos Aires, Argentina; Laurea University of Rome, 1981.

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MASTERS OF ARTS

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Edward F. MacDonald, of Washington, D.C.; B.S. University of Maine, 1979.

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Carolyn Ann Mar, of Redondo Beach, Calif.; B.A. Antioch College, 1978.

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MASTERS OF ARTS

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Marie Theresa Dauenheimer, of College Point, N.Y.; B.A. The State University of New York at Stony Brook, 1982. Medical and Biological Illustration.

An Anatomical Study of the Leg and Foot of the Night Monkey Aotus (Mammalia, Primates).

Kenneth Allen Edwards, of Potomac, Md.; B.S. St. Mary's College of Maryland, 1982. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Interactions between DNA Topoisomerase I and SV40 Chromatin.

Anne Marie Erickson, of Staten Island, N.Y.; B.S. Wagner College, 1974. Medical and Biological Illustration.

Anaomy of Alveolar Structure in Neonatal Lung—A Comparative Study of Normal and Pathologic Tissue.

Nadine Lynn Nivera Halligan, of Baltimore, Md.; B.S. University of Maryland, 1979. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Biosynthesis of Myelin Glycoprotein.

Hector E. Jimenez Billini, of Santo Domingo, Dominican Republic; M.S. The State University of Odessa I. I. Mechnikov, 1977. Biochemistry, Cellular and Molecular Biology—Molecular Biology and Genetics.

A New Locus in Escherichia Coli K-12 Affecting Pantothenate Metabolism and DNA Synthesis.

Leslie Anne McCament-Mann, of Albuquerque, N.M.; B.A. Texas Christian University, 1977. Pharmacology and Experimental Therapeutics.

The Characterization and Functional Significance of Cerebrospinal Fluid Acetylcholinesterase and other Acetycholinesterases of the Nervous System.

Suzanne Elizabeth Merrick, of Bishop, Calif.; B.A. University of the Pacific, 1982. Medical and Biological Illustration.

The Internal Anatomy of the Median Nerve within the Brachial Plexus.

Jane Sewell, of Baltimore, Md.; B.Sc. University College—London, 1982. History of Medicine.

The Homoeopathic Treatment of the Insane.

Sharon Isabelle Teal, of Columbus, N.C.; B.S. Central Michigan University, 1977. Medical and Biological Illustration.

Spatial Relationships Between the Semilunar and Atrioventricular Valves in the Developing Human Embryo.

MASTER OF CIVIL ENGINEERING

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Kevin Matthais Shea, of Burke, Va.; B.S. James Madison University, 1980. Computer Science.

Sei-Hwa Shen, of Randallstown, Md.; B.S. National Taiwan University, 1974; M.S. Virginia Polytechnic Institute, 1979. Computer Science.

Eric Robert Shields, of Dayton, Md.; B.S. University of Maryland, 1978. Computer Science.

James Edward Shifflett, of Glen Dale, Md.; B.S. University of Virginia, 1972; M.S. Princeton University, 1974; M.B.A. Washington University, 1979. Computer Science.

Paul Andrew Shipley, of Manchester, Md.; A.S. Essex Community College, 1975; B.S. University of Maryland, 1977. Computer Science.

Haw-Jye Shyu, of Columbia, Md.; B.S. National Tsing-Hua University, 1977; M.S. West Virginia University, 1981. Computer Science.

Annie Legros Sirmon, of Ellicott City, Md.; B.S. Worcester State College, 1978. Computer Science.

Lawrence James Skane, of Catonsville, Md.; M.S. Purdue University, 1963. Computer Science.

Talal Kassem Slim, of Greenbelt, Md.; M.S. Technical University of Prague, 1975. Computer Science.

Brian Thomas Smith, of Bowie, Md.; B.S. University of Texas at Dallas, 1979. Computer Science.

Judy Lynn Smith, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1979. Computer Science.

Suzette Sommerer, of Silver Spring, Md.; B.S. Washington University, 1979. Numerical Science.

Rudolph Somwaru, of Burtonsville, Md.; B.A. Central Connecticut State University, 1972; M.A., 1974. Computer Science.

Beryl Ephraim Sorscher, of Brooklyn, N.Y.; B.T.L. Ner Israel Rabbinical College, 1982. Computer Science.

Srinivasa Sridharan, of Glen Burnie, Md.; B.Sc. Madras University, 1966; M.Sc., 1968; Ph.D. University of California, 1974. Computer Science.

William David Stanbro, of Columbia, Md.; B.S. George Washington University, 1968; Ph.D., 1972. Computer Science.

Maureen McDonald Stark, of Edgewood, Md.; B.S. State University College, 1977. Computer Science.

William Olan Stevenson, of Severn, Md.; M.S. Loyola College, 1979. Computer Science.

Robert Strauss, of Silver Spring, Md.; B.A. State University of New York at Stony Brook, 1973. Computer Science.

Rodney Harris Summerford, of Crofton, Md.; B.I.E. Georgia Institute of Technology, 1974. Computer Science.

Charles Waterson Swinton III, of Columbia, Md.; B.S. United States Naval Academy, 1977. Computer Science.

Ralph Paul Tann, of Pasadena, Md.; B.A. La Salle College, 1981. Computer Science.

James Ward Tavener, of Severn, Md.; B.S. Michigan Technological University, 1972; M.S., 1973. Computer Science.

Lloyd William Taylor, of Savage, Md.; B.S. Washington University, 1981. Electrical Engineering.

William John Thatcher, of Columbia, Md.; B.S.E.E.T. Temple University, 1981. Computer Science.

Terence Douglas Thomas, of Takoma Park, Md.; B.S. University of Maryland, 1982. Computer Science.

George Richard Thompson, of Sumner, Md.; B.E.E. Georgia Institute of Technology, 1966; M.S.A. George Washington University, 1975. Technical Management.

Barry E. Tossman, of Silver Spring, Md.; B.S. University of Maryland, 1961; M.S., 1963; M.E., 1963. Technical Management.

William Carl Trimble, of Columbia, Md.; B.E.E. Vanderbilt University, 1961; M.E.D. Polytechnic Institute of Brooklyn, 1967. Technical Management.

Shu-hwa Lee Tuan, of Silver Spring, Md.; M.S. National Taiwan University, 1967. Computer Science.

Daniel Urbina, of Columbia, Md.; M.B.A. Loyola University, 1977. Computer Science.

Kenneth Dixon Vane, of Silver Spring, Md.; B.S. Towson State University, 1980. Computer Science.

William Palmer van Order, of Germantown, Md.; B.A. Gettysburg College, 1976; M.S. George Washington University, 1981.

Glen Vierheller, of Pinellas, Fla.; M.B.A. Florida Institute of Technology, 1981. Computer Science.

Vincent Vigliotti, of Eldersburg, Md.; University of Michigan, 1977. Computer Science.

Steven Michael Walczak, of Columbia, Md.; B.S. Pennsylvania State University, 1981. Computer Science.

Scott Lawrence Waldron, of Cockeysville, Md.; B.S.E.E. The Johns Hopkins University, 1980. Computer Science.

Karen Busch Walker, of Laurel, Md.; B.S. Virginia Polytechnic Institute, 1980. Computer Science.

David Ching-Hang Wang, of Columbia, Md.; B.S. Tungha University, 1962; M.S. North Dakota St., 1966; M.A. The Johns Hopkins University, 1970; Ph.D., 1973. Electrical Engineering.

Richard William Webbert, of Baltimore, Md.; B.S.E.E. Carnegie-Mellon University, 1981. Electrical Engineering.

Roger Owen Weiss, of Columbia, Md.; B.S.A.E. University of Maryland, 1964; M.S.A.E., 1967; Ph.D., 1977. Technical Management.

Timothy Van Hyde Whitcombe, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980. Computer Science.

Peter Charles Whitman, of Columbia, Md.; B.A. Washington University, 1982. Numerical Science.

Allen Douglass Wicks, of Baltimore, Md.; B.S. Morgan State University, 1973. Computer Science.

Gary Michael Wieboldt, of Millersville, Md.; B.S.E. New York Institute of Technology, 1982. Computer Science.

Paddi Lynn Williams, of Rockville, Md.; B.A. University of Virginia, 1981. Computer Science.

Mark Andrew Wilson, of Laurel, Md.; B.A. University of Utah, 1979. Computer Science.

Richard Alan Wojcik, of Columbia, Md.; B.S. Pennsylvania State University, 1980. Computer Science.

Jeffrey Wong, of Towson, Md.; B.S. Duke University, 1982. Computer Science.

Carl Wu, of Manassas, Va.; B.S. Virginia Military Institute, 1981. Computer Science.

John Richard Wyatt, of Laurel, Md.; B.S.E. University of Michigan, 1979. Computer Science.

Stephen Patrick Yanek, of Laurel, Md.; B.A. St. Vincent College, 1968; M.S. The Johns Hopkins University, 1971. Technical Management.

Yao-Kuei Yang, of Columbia, Md.; M. S. Stevens Institute of Technology, 1979. Computer Science.

Huang Yeh, of Silver Spring, Md.; B.S. University of Maryland, 1982. Computer Sciences.

Christopher Martin Young, of Annapolis, Md.; B.S. Towson State University, 1980. Computer Science.

Robert Arthur Young, of Baltimore, Md.; B.A. St. Mary's Seminary, 1969. Computer Science.

Steven Anthony Zelubowski, of Lutherville, Md.; B.S.E. Georgia Institute of Technology, 1981. Electrical Engineering.

MASTERS OF SCIENCE IN ENGINEERING

in The G.W.C. Whiting School of Engineering

Ravina Dattu Advani, of Poona Maharashtra, India. Electrical Engineering and Computer Science.

Denise Marie Aylor, of Arnold, Md.; B.S. Virginia Polytechnic Institute and State University, 1980. Materials Science and Engineering.

Investigations of Pitting Corrosion of Aluminum and Aluminum-Based Metal Matrix Composites.

Frederic William Bauchwitz, of Wilmington, Del.; B.S. University of Michigan, 1982. Mathematical Sciences.

Glenn Belanga Bell, of Glen Burnie, Md.; Electrical Engineering and Computer Science.

Arthur Todd Benjamin, of Cleveland, Ohio; B.S. Carnegie-Mellon University, 1982. Mathematical Sciences.

Brian C. Booth, of Elkton, Md.; B.E.S. The Johns Hopkins University, 1983. Mechanics.

A Finite Element Analysis of J-Integral Versus Crack Growth Resistance Curves for Metallic Materials.

Juan Carlos Cahiz, of Valencia, Venezuela; B.S. University of Kansas, 1983. Electrical Engineering and Computer Science.

Bernard Craig Caplan, of Baltimore, Md. Mathematical Sciences.

Yaw Oliver Chang, of Taipei, Taiwan; B.S. National Chiao Tung University, 1980. Mathematical Sciences.

Edward S. Chornoboy, of Baltimore, Md.; B.E. Stevens Institute of Technology, 1977. Electrical Engineering and Computer Science.

Tasos Christoforos Christofides, of Nicosia, Cyprus. Mathematical Sciences.

Michael David Clingman, of Wilmington, Del.; B.M.E. University of Delaware, 1980. Mathematical Sciences.

James Robert Connelly, of Camillus, N.Y.; B.E.S. The Johns Hopkins University, 1983. Electrical Engineering and Computer Science.

Andrew Charles Eisenberg, of Bloomsburg, Pa.; B.S. Bloomsburg State College, 1983. Electrical Engineering and Computer Science.

Bret Jonathan Elkind, of New Rochelle, N.Y.; B.E.S. The Johns Hopkins University, 1983. Materials Science and Engineering.

Ultrasonic Characterization of Microstructurally Modified Surfaces of Steel Subjected to Electron Beam Irradiation.

Laurie Lee Evans, of Charlestown, R.I. Materials Science and Engineering.

Methods of Detecting Wear of End Mills in Three Steels.

Michael Vaughn King Gilliland, of Okemos, Mich.; B.A. Michigan State University, 1977; M.A. University of Illinois at Chicago Circle, 1980; M.A. The Johns Hopkins University, 1984. Mathematical Sciences.

Edwin Matthew Hackett, of Annapolis, Md.; B.S. Virginia Polytechnic Institute and State University, 1980. Materials Science and Engineering.

An Investigation of the Environmental Cracking Susceptibility of a High Strength Steel Using J-Integral Techniques.

Mark Evan Hartmann, of Baltimore, Md. Mathematical Sciences.

Yoopyo Hong, of Seoul, Korea; B.S. University of Maryland, 1974. Mathematical Sciences.

Consimilarity: Theory and Applications.

Timothy Ming Hsieh, of Towson, Md.; B.E.S. The Johns Hopkins University, 1983. Materials Science and Engineering.

A Review and Experimental Reevaluation of Acoustic Resonance Techniques for Nondestructive Materials Characterization.

Stuart A. Hurwitz, of Austin, Texas; B.S. University of Maryland, 1982. Chemical Engineering.

The Effects of Temperature and Pressure on the Growth of the Extreme Thermophile Sulfolobus of Acidocaldarius.

Gang Jin, of Shanghai, China. Chemical Engineering.

Particle Dispersion on Bi-directional-binary Two Dimensional Incompressible Velocity Fields.

Anthony Everton Jones, of New York, N.Y.; B.A. Dartmouth College, 1979; B.E. Thayer School of Engineering, 1980. Electrical Engineering and Computer Science.

Sign Language Transmission Via the Telephone System.

Choon-Ho Kim, of Seoul, Korea; B.S. Sogang University, 1981. Chemical Engineering.

Vapor-Liquid Equilibria for Binary Mixtures of Carbon Dioxide with Benzene, Toluene, and p-Xylene.

Joo-Jin Lee, of Seoul, Korea; B.S.E. Seoul National University, 1975. Mechanics.

A Study of Fatigue Thershold and Crack Closure at Elevated Temperature.

George Anthony Leimbach, of St. Louis, Mo.; B.S. Washington University, 1982; B.A. St. Louis University, 1983. Chemical Engineering.

The Rheological Characterization of Two Biopolymers: Iota Carrageen and Actin.

Sanjeev R. Maddila, of Kanpur, India. Electrical Engineering and Computer Science.

Tiling of the Plane and Related Problems: A Survey.

Mary Manolopoulou, of Athens, Greece; Degree of Mathematics, University of Athens, 1983. Mathematical Sciences.

Patrick James McGuinness, of Ridgewood, N.J. Electrical Engineering and Computer Science.

Cary Bradford Phillips, of Charlotte, N.C. Electrical Engineering and Computer Science.

Louis Carlyle Phillips, of Louisville, Ky.; B.S.E. Purdue University, 1981. Materials Science and Engineering.

Using Optical Correlation to Measure Leak Rates in Sealed Packages.

Andrew G. Santo, of St. Marys, Pa. Electrical Engineering and Computer Science.

Miguel Angel Sanz, of Madrid, Spain; Certificacion, Universidad Politecnia de Madrid, 1982. Civil Engineering.

Barbara Anne Shaw, of Arnold, Md.; A.A. St. Petersburg Jr. College, 1977; B.S. Florida Atlantic University, 1980. Materials Science and Engineering.

Characterization of the Corrosion Behavior of Aluminum, Zinc and Zinc-Aluminum Thermal Spray Coatings.

Frank David Simon, of St. Louis Park, Minn.; B.C.S. University of Michigan, 1983. Electrical Engineering and Computer Science.

Xiaoli Sun, of Beijing, China; B.A. Taiyuan Institute of Technology, 1982. Electrical Engineering and Computer Science.

Ling-Ling Tao, of Bethesda, Md. Mathematical Sciences.

Laura Elaine Taschenberg, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982. Materials Science and Engineering.

The Influence of Chlorination on the Electrochemical and Corrosion Behavior of Alloys in Seawater.

James Andrew Thomas, of Encinitas, Calif.; B.S. Harvey Mudd College, 1983. Electrical Engineering and Computer Science.

Thomas John Vozzo, of Pompton Lakes, N.J. Mathematical Sciences.

Jianliang Wang, of Beijing, China; B.S. Beijing Institute of Technology, 1982. Electrical Engineering and Computer Science.

Edward Joseph Wiest, of Ocala, Fla.; B.E.S. The Johns Hopkins University, 1984. Mathematical Sciences.

Gregory Martine Wilkins, of Capitol Heights, Md.; B.S.E.E. University of Maryland, 1983. Electrical Engineering and Computer Science.

John Albert Williams III, of Crestwood, Mo. Electrical Engineering and Computer Science.

MASTER OF ARTS

in The G.W.C. Whiting School of Engineering

Steven Jay Steinsaltz, of Coral Springs, Fla. Mathematical Sciences.

MASTERS OF ARTS

in The School of Arts and Sciences

Asma Afsaruddin, of Dhaka, Bangladesh; B.A. Oberlin College, 1982. Near Eastern Studies.

Al-Maristan al-Nur and Medical Practice in Syria in the Late Middle Ages.

Fiona Catherine McDougall Anderson, of Rome, Italy; B.A. Queens University, 1981. Political Economy.

Amy Jean Armon, of Baltimore, Md.; B.A. William Smith College, 1978; M.A. The University of Chicago, 1981. Hispanic and Italian Studies.

Tommaso Astarita, of Naples, Italy; B.A. Universita degli Studi di Napoli, 1983. History.

Steven Charles Beadle, of Davis, Calif.; B.A. Williams College, 1983. Earth and Planetary Sciences.

Edward Michael Bennett, of Philadelphia, Pa. Earth and Planetary Sciences.

Murry Dale Bentley, of Chattanooga, Tenn.; B.A. University of Tennessee, 1977. Physics and Astronomy.

Lauren Ann Benton, of Baltimore, Md.; B.A. Radcliffe College, 1978. Anthropology.

Lora Jane Berg, of Rochester, N.Y.; B.A. The University of North Carolina at Chapel Hill, 1980. Writing Seminars.

Tintinnalogia (The Art of Ringing Bells).

Antje Friederike Bieler, of Selb Bavaria, West Germany; B.A. Hamburg University, 1983. German.

Dennis Philip Biggie, of Melrose, Mass.; B.A. Dartmouth College, 1980. Philosophy.

Kenneth Mansfield Bilby, of New York, N.Y.; B.A. Bard College, 1976. Anthropology.

Annette Birschel, of Braunschweig, West Germany; Certificate, Elsa-Brandstrom Schule at Hanover, 1979. German.

Natalie Joy Brown, of Annapolis, Md.; B.A. Washington College, 1984. Writing Seminars.

Gabriella Amalia Bucci, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982. Political Economy.

Arthur Barnard Budick, of New York, N.Y.; B.A. Cornell University, 1971. English.

Trevor Graeme Burnard, of Dunedin, New Zealand. History.

Mark Lawrence Campbell, of Annapolis, Md.; B.S. Brigham Young University, 1978; M.S., 1980. Chemistry.

Kathleen Mary Canning, of Green Bay, Wis.; B.A. University of Oregon, 1977. History.

Xiaoyun Cao, of Nanjing, China; M.A. Nanjing University, 1980. Earth and Planetary Sciences.

Deborah A. Caro, of New York, N.Y.; B.A. Cornell University, 1975. Anthropology.

'Those Who Divide Us': Resistance and Change Among Pastoral Ayllus in Ulla Ulla, Bolivia.

Teresa Ruth Carr, of Morris Township, N.J. Writing Seminars.

Old Physics and New Technology.

Kenneth Carter Chambers, of Los Alamos, N.M.; B.A. University of Colorado, 1979. Physics and Astronomy.

Catherine Ann Chatham, of Greenville, Miss. Writing Seminars.

Common Quirks and Other Stories.

In-Rae Cho, of Pusan, Korea; B.S. Seoul National University, 1975; M.A. 1977. Philosophy.

William Sydney Coffman, of Mentor, Ohio; B.A. Case Western Reserve University, 1983. Writing Seminars.

Personal Constellations.

John David Coleman, of Erie, Pa.; B.A. Pennsylvania State University, 1984. Writing Seminars.

Senior League and Other Stories.

Kenneth Lee Colston, of Annapolis, Md.; B.A. Northern Kentucky University, 1978. Writing Seminars.

The Liberty Renaissance.

David Alexander Content, of Washington, D.C.; B.A. Hamilton College, 1982. Physics and Astronomy.

Luisa Francesca Costanzo, of Washington, D.C.; B.A. Yale University, 1983. History of Art.

Armand Eugene Coullet, of New York, N.Y.; B.A. Millsaps College, 1962; M.A. University of Denver, 1966. Writing Seminars.

Antithesis.

Lisa Lynnette Countess, of Baltimore, Md. Classics.

Deborah Amanda Delauney, of New York, N.Y.; B.A. Cornell University, 1978. History of Art.

Lucia Maria Desir, of Barrancabermeja, Colombia; B.A. City University of New York, 1974. Anthropology.

Fredric Andrew Diegel, Jr., of Baltimore, Md. Earth and Planetary Sciences.

Peter Eugene Digeser, of Pittsfield, Mass.; B.A. State University of New York at Buffalo, 1980. Political Science.

Preference and Public Choice.

Christopher Thomas Dixon, of Schenectady, N.Y.; B.A. Case Western Reserve University, 1981; M.A., 1981. History.

The Navy and Political Consensus, 1781-1812.

David Charles Drewer, of Dundalk, Md.; B.A. The Johns Hopkins University, 1983. Physics and Astronomy.

Michael Gerard Dunne, of Toronto, Canada; B.A. York University, 1981. Mathematics.

Kenneth Floyd Dymond, of Wilkes-Barre, Pa.; B.S. Florida Institute of Technology, 1979. Physics and Astronomy.

Pamela Lou Feldman, of Baltimore, Md.; B.A. Indiana University, 1980. Anthropology.

Henry Closson Ferguson, of Schenectady, N.Y.; B.A. Harvard University, 1981. Physics and Astronomy.

Eileen M. Fitzgerald, of St. Petersburg, Fla. Psychology.

Sucrose Inhibits Distress Vocalizations and Elevates Pain Threshholds in 10-Day Old Rats: Mediation by Endogenous Opiods.

Charles Lincoln Folk, of Towson, Md.; B.A. Gettysburg College, 1981. Psychology.

John Harold Fournelle, of Baltimore, Md.; B.S. University of Maryland, 1983. Earth and Planetary Sciences.

Gertrude Jacinta Fraser, of Brooklyn, N.Y.; B.A. Bryn Mawr College, 1980. Anthropology.

Joshua Mordecai Friedman, of Nashua, N.H.; M.S.E. The Johns Hopkins University, 1984. Physics and Astronomy.

Resistive Cathode Muon Telescope System.

Mary Claire Fuller, of Atlanta, Ga.; B.A. Dartmouth College, 1981. English.

Eric G. Garberson, of Edmonds, Wash.; B.A. Pomona College, 1983. History of Art.

John David Garrigus, of Rushville, Ind. History.

Holly Anne Getch, of Boston, Mass.; B.A. Princeton University, 1982. History of Art.

Eva Geulen, of Bergneustadt Blz. Koln, West Germany. German.

Jane A. Gilotti, of Bethlehem, Pa.; B.A. University of Maine at Orono, 1978. Earth and Planetary Sciences.

Stephen Dana Goldman, of Glen Cove, N.Y.; B.E.S. The Johns Hopkins University, 1982. Psychology.

Fernando Javier Gonzalez, of Elizabeth, N.J.; B.A. Rutgers University, 1981. History.

Marc Joseph Gotlieb, of Washington, D.C.; B.A. University of Toronto, Canada, 1980; M. A. Oxford University, England, 1982. History of Art.

Scott Evan Guggenheim, of New York, N.Y.; B.A. City University of New York, 1975. Anthropology.

Proletarianization and Political Change in the Northern Philippines.

Mary Shepherd Gwaltney, of Smithfield, Va.; B.A. The College of William and Mary, 1983. History.

Alexandra Hester Halasz, of Chicago, Ill.; B.A. Reed College, 1974. English.

John Christopher Haley, of Leesburg, Va. Earth and Planetary Sciences.

Larrene Kiyomi Harada, of Honolulu, Hawaii; B.A. Wellesley College, 1982. Physics and Astronomy.

Masana Harada, of Tokyo, Japan; B.S. Kyoto University, 1983. Mathematics.

Darryl Glenn Hart, of Baltimore, Md.; B.A. Temple University, 1979; M.A.R. Westminster Theological Seminary, 1981. History.

Eric Kenworthy Heavner, of Englewood, N.J.; B.A. Montclair State College, 1981. Political Science.

Liberty, Markets and the Justification of Private Property.

Kathleen Marian Heffron, of Silver Spring, Md.; B.A. George Washington University, 1970. Anthropology.

Alan Scott Henderson, of West Palm Beach, Fla.; B.A. Florida State University, 1984. History.

As a Matter of Expediency and Fundamental Principles: The Massachusetts Constitutional Convention of 1820-21 and the Virginia Constitutional Convention of 1829-30.

Vera Beth Herst, of Winnetka, Ill.; B.A. Lynchburg College, 1977. Philosophy.

Philip Stephen Hicks, of St. Petersburg, Fla. History.

Yvette Renee Holland, of Glenwood, Md.; B.A. University of Maryland, 1983. Writing Seminars.

Seeds of Light.

Rebecca Lane Hopkins, of Rockville, Md.; B.A. Goucher College, 1981. Writing Seminars.

Glass Wave.

Lynda Karol Hull, of North Caldwell, N.J.; B.A. University of Arkansas at Little Rock, 1983. Writing Seminars.

The Floating Wedding.

James Carlyle Ingham, of Baltimore, Md.; B.A. Saint John's College, 1982. Physics and Astronomy.

Andrew Philip Jephcoat, of Solihull, England. Earth and Planetary Sciences.

David Aram Kaiser, of San Francisco, Calif.; B.A. University of California at Berkeley, 1981. English.

Diane L. Kampen, of Shorewood, Wis.; B.A. Kalamazoo College, 1982. Psychology.

Kenneth Takashi Kato, of Lodi, Calif.; B.A. University of California at Berkeley, 1976. Political Science.

Some Determinants of House Careers: A Party System Model of Institutional Change.

Joanne Baetzhold Kean, of Randallstown, Md.; B.A. Canisius College, 1979. Chemistry.

Yasumasa Kikuchi, of Kanagawa-Ken, Japan; B.A. Columbia University, 1979. History.

Keekyung Kim, of Seoul, Korea; B.S. Yonsei University, 1981. Chemistry.

Matthew Robert Koch, of Hamilton Ontario, Canada; B.A. Queen's University, 1983. History.

William Marshall Kuhn, of Columbus, Ohio; B.A. University of Chicago, 1979. History.

Richard Carlson Leavitt, of Albuquerque, N.M.; B.A. Reed College, 1983. Physics and Astronomy.

Alan H. Lessoff, of Baltimore, Md.; B.A. Columbia University, 1981. History.

Jay Martin Liebowitz, of Flushing, N.Y.; B.S. Massachusetts Institute of Technology, 1980. History of Science.

Flexible Corporate Structures: The Management of Systems Engineering in Bell Labs.

Ane Jean Lintvedt, of Grosse Pointe Park, Mich.; B.A. Lawrence University, 1982. History.

Bin Liu, of Zhenjiang, China. Physics and Astronomy.

Ira Paul Lowenthal, of Jersey City, N.J.; B.A. Yale University, 1972. Anthropology.

Rosemary Mahoney, of Milton, Mass.; B.A. Harvard University, 1983. Writing Seminars.

The Darning Needle.

James Bennett Mandrell, of Phoenix, Ariz.; B.A. Kalamazoo College, 1977. Writing Seminars.

Circulo.

John William Marshall, of London, England; B.A. Cambridge University, 1983. History.

Samuel Martinez-Maza, of Hacienda Heights, Calif.; B.S. Stanford University, 1981. Anthropology.

Nancy Lois Maveety, of Belleville, N.J.; B.A. Arizona State University, 1982. Political Science.

The Populist of the Adversary Society: The Constitutional Philosophy of Mr. Justice Rehnquist.

Nancy Ann McCarthy, of Hartford, Conn.; B.A. Smith College, 1980. Philosophy.

Hugh Kevin McNeelege, of Pittston, Pa.; B.A. The Johns Hopkins University, 1981. Political Science.

The Emergence of the Semi-Colonial State in China, 1839-1927.

John Francis Metcalfe, of London Ontario, Canada; B.A. York University, 1982.

Lola Lott Minor, of Joppa, Md.; B.A. Stetson University, 1969; M.S. The Johns Hopkins University, 1982. Psychology.

Michael David Moon, of Blackwell, Okla.; B.A. Columbia University, 1979. English.

Norma Claire Moruzzi, of Shrewsbury, Mass.; B.A. Amherst College, 1980. Political Science.

The Enigmatic Spectator: The Problem of Hannah Arendt.

Brian Thomas Murphy, of Cranford, N.J.; B.A. Syracuse University, 1982. Political Economy.

Francoise Nelles, of Chicago, Ill.; B.A. Boston University, 1983. Mathematics.

Kenneth Richard Newman, of Baltimore, Md.; B.A. The Johns Hopkins University, 1982. History.

Hans Rudolf Nollert, of Luray, Va.; B.A. University of Virginia, 1980. German.

Wendell Mark O'Brien, of Lucasville, Ohio; B.A. Malone College, 1979; M.T.S. Harvard Divinity School, 1982. Philosophy.

Andrew Christen Olson, of Lincoln, Nebr.; B.S. Eckert College, 1984. Writing Seminars.

Truing Wheels.

Scott Vaughn Parris, of New York, N.Y.; B.A. Yale University, 1973; B.A. Cambridge University, England, 1975. Anthropology.

Caroline Payson, of Boston, Mass. Writing Seminars.

The Man Who was in the Wizard of Oz and Other Stories.

Lisa Rene Pecoraro, of Westminster, Md.; B.A. Loyola College, 1984. Writing Seminars.

Past Darkness.

Mark Andrew Peel, of Salisbury Park, South Australia; B.A. Flinders University, 1981. History.

Michael Edward Perry, of Baltimore, Md. Physics and Astronomy.

Carol Susan Pescow, of Bronx, N.Y.; B.A. State University of New York at Binghamton, 1984. Writing Seminars.

Naked in the Playground.

Stephanie Polyzois, of Baltimore, Md.; B.A. Wake Forest University, 1980. Psychology.

Carol Arlene Prescott, of Anaheim, Calif. Psychology.

Attentional Disturbances in Schizophrenia and Mania.

Mark Davenport Pritt, of Covington, Tenn. Mathematics.

Stephen D. Rachman, of Concord, Mass. History.

Thoreau and Whitman: On Transcendentalism and Sexuality.

Lisa Karenina Radulovic, of Honolulu, Hawaii. Writing Seminars.

The Dogsbody's Tale and Others.

Mark David Rasmussen, of Portland, Ore.; B.A. Harvard University, 1975. English.

Nancy Ruth Reagin, of Los Angeles, Calif.; B.A. University of California at Berkeley, 1982. History.

Connie Lynn Rodriguez, of Richmond, Va.; B.A. University of Richmond, 1977. Classics.

Erika Rognsvoog, of Oak Creek, Wis.; B.A. Mount Holyoke College, 1983. Chemistry.

Deborah Susan Rubin, of Washington, D.C.; B.A. Brown University, 1975. Anthropology.

Mari Sako, of Osaka, Japan; B.A. Oxford University, England, 1981; M.Sc. The London School of Economics and Political Science, 1982. Political Economy.

Peggy Anne Samuels, of New York, N.Y.; B.A. Yale University, 1981. Writing Seminars.

Oh, Nature.

Crispin Gallagher Sartwell, of Baltimore, Md.; B.A. University of Maryland, 1980. Philosophy.

Suzanne Schneider, of Houston, Texas; B.A. Rice University, 1984. Writing Seminars.

Death by Water.

James Robert Schreier, of Baltimore, Md.; B.A. University of Wisconsin at Madison, 1969; M.S. Morgan State University, 1978. Writing Seminars.

Switchbacks.

Tammy Dawn Shannon, of Rahway, N.J.; B.A. The Johns Hopkins University, 1982. German.

Alan Meyer Shapiro, of Seattle, Wash.; B.S. Cornell University, 1983. Earth and Planetary Sciences.

Dennis Francis Shaw, of Washington, D.C.; B.A. Saint Bonaventure University, 1969. Writing Seminars.

Suzanne Eloise Siskel, of Los Angeles, Calif.; B.A. Radcliffe College, 1974. Anthropology.

Christopher Daniel Skubby, of Cleveland, Ohio; B.A. Cleveland State University, 1981. Political Science.

The Politics of Hazardous Waste: Congressional Oversight of the EPA's Implementation of the Superfund.

Tara A. Smith, of Hoboken, N.J.; B.A. University of Virginia, 1983. Philosophy.

Dana Lynn Sonnenschein, of West Des Moines, Iowa; B.A. The University of Iowa, 1983. Writing Seminars.

Zoetrope.

Wolfgang Manfred Splitter, of Bielefeld, Germany. History.

Legal Disabilities and Petitioning of Jews in Colonial Rhode Island and British Jamaica until the American Revolution.

Huan Tang, of Huchow Zhejiang, China. Physics and Astronomy.

Jeffrey Neel Taylor, of Farmingham, Mass.; B.S. University of Iowa, 1982. Physics and Astronomy.

Amelia Adele Terhune, of Syracuse, N.Y.; B.A. Union College, 1983. Philosophy.

Patricia Torres-Mejia, of Mexico City, D.F. Mexico. Anthropology.

Stanley Wilson Tozer, of Mt. Prospect, Ill.; B.A. Carleton College, 1979. Chemistry.

Li-huang Tu, of Shanghai, China. Mathematics.

Catherine Treisback Tuggle, of Jacksonville, Fla.; B.A. University of North Florida, 1977. History.

Jon Ralph Udell, of Ann Arbor, Mich.; B.A. University of Michigan at Ann Arbor, 1979. Writing Seminars.

Essays on Computers and Language.

Spyridon Vassilakis, of Athens, Greece; B.A. University of Athens, 1982. Political Economy.

Stephen Owens Vaughan, of Chapel Hill, N.C.; B.S. University of North Carolina at Chapel Hill, 1983. Chemistry.

John Alan Wagner, of Norristown, Pa.; B.A. The Johns Hopkins University, 1983. Psychology.

Herbert Valentine Walker, of Guelph Ontario, Canada; B.A. University of Guelph, 1979. Philosophy.

Alison Ann Jones Webb, of Troy, Ohio; B.A. Colby College, 1981. History.

Nineteenth Century Slavery in the Mauritanian Sahara.

Michael A. Weinstein, of Arlington, Va.; B.A. Brandeis University, 1982. Physics and Astronomy.

A Vacuum Ultraviolet Monochromator.

Jennifer Welchman, of Brooklyn, Conn.; B.A. University of Massachusetts, 1981. Philosophy.

Cynthia G. Wible, of Franklin, Pa. Psychology.

Glenn Alan Wilson, of Baltimore, Md.; A.A. El Camino College, 1977. Earth and Planetary Sciences.

Walter T. Wilson, of Spring, Texas; B.A. The Johns Hopkins University, 1985. History.

'Palliative' and 'Agitative' Features in the Social Orientation of the Black Spiritual Movement.

Eric Scott Windsor, of Silver Spring, Md.; B.S. University of Maryland, 1982. Earth and Planetary Sciences.

Teresa Anne Yrastorza, of Washington, D.C.; B.A. University of California at Berkeley, 1981. English.

Another Grasp at the Narrator in Herman Melvill's Billy Budd.

Rogerio Lucas Zandamela, of Inhambane, Mozambique; Laurea, Catholic University of the Sacred Heart, Italy, 1981; D.E.A. The Sorbonne, 1982. Political Economy.

Zi-Li Zhang, of Jinan Shandong, China. Physics and Astronomy.

Xiao-wei Zhu, of Shanghai, China. Mathematics.

DOCTORS OF EDUCATION

in The School of Continuing Studies

June Oliveri Bond, of Fallston, Md.

The Effects of Overcorrection on the Genital Self-Stimulation of Blind Multihandicapped Adolescents.

Linda Erdmann Brody, of Columbia, Md.; B.A. Queens College, 1968.

The Effects of an Intensive Summer Program on the SAT Scores of Gifted Seventh Graders.

Harold W. Campbell, of Reisterstown, Md.; B.A. University of California at Santa Barbara, 1967; M.A. 1968.

The Effectiveness of Cued Text in Teaching Pronoun Reference in Written English to Deaf Students.

Robin Pearlman Gallico, of Baltimore, Md.; B.S.Ed. Lesley College, 1970. M.Ed. Columbia University, 1971.

The Application of a Discrepancy Model with a Cognitive/Behavioral Profile for Differentiating Learning Disabilities from Emotional Disturbance.

Martin Saul Gould, of Eugene, Ore.; M.A. Ohio State University, 1981.

The Effects of Posted Patient Performance Feedback on Staff Behaviors in a Dayroom Setting.

Lois Therres Pommer, of Baltimore, Md.; B.S. University of Maryland, 1977; M.A. Loyola College, 1979.

Concurrent Validity of the Kaufman Assessment Battery for Children, Wechsler Intelligence Scale for Children—Revised, and Woodcock-Johnson Psycho-Educational Battery with Seriously Emotionally Disturbed Children.

DOCTORS OF MUSICAL ARTS

in The Peabody Conservatory of Music

Deborah Freedman, of Green Bay, Wis.; B.S. University of Minnesota, 1977; M.M. Peabody Conservatory of Music, 1983. Instrumental Conducting.

Thea Musgrave's Opera Mary, Queen of Scots

Patricia Barnes Griffith, of Winston-Salem, N.C.; B.M. Salem College, 1972; M.M. Peabody Conservatory of Music, 1974. Piano.

The Solo Piano Music of Gordon Binkerd.

Gerald H. Groemer, of Tucson, Ariz.; B.M. Arizona State University, 1978; M.M. Peabody Conservatory of Music, 1980. Piano.

Selected American Neo-tonal Piano Music since 1968: Technique and Aesthetic of the New Romantics in the United States.

Michael Robert Habermann, of Glen Cove, N.Y.; B.A. Long Island University, 1978; M.A., 1979. Piano.

A Style Analysis of the Nocturnes for Solo Piano by Kaikhosru Shapurji Sorabji with Special Emphasis on "Le jardin parfume."

Danny Roy Kelley, of Houston, Texas; B.A. Prairie View College, 1969; M.M. Peabody Conservatory of Music, 1971. Piano.

A Style Analysis of the Piano Music of Lawrence K. Moss.

Alan Jay Pearlmutter, of Baltimore, Md.; B.A. Brooklyn College, 1967; M.A., 1972. Instrumental Conducting.

Leonard Bernstein's Dybbuk: A Musical Representation within Hasidic Culture.

Ireneus Bohdan Yardmyr Zuk, of Montreal, Quebec, Canada; B.S. McGill University, 1963; L.M., 1965; B.M., 1968; M.S. The Juilliard School, 1969. Piano.

The Piano Concerto in Canada: A Chronological Survey Analysis of Selected Concerti of Canadian Composers in the Twentieth Century.

DOCTORS OF SCIENCE

in The School of Hygiene and Public Health

Ilene Hearn Briskin, of Owings Mills, Md.; B.A. Case Western Reserve University, 1969; M.A. 1971. Health Policy and Management.

Factors Determining Patient Compliance With a Hearing Aid Trail Recommendation.

Barry Ira Castleman, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1968; M.S.E., 1972. Health Policy and Management.

Asbestos: An Historical Case Study of Corporate Response to an Industrial Health Hazard.

Chueh Chang, of Taipei, Taiwan; B.S. National Taiwan University, 1972; M.P.H., 1974. Behavioral Sciences and Health Education.

Anticipatory Examination Stress on Health of Adolescents in Taiwan.

Zoe Esther Clayson, of Salinas, Calif.; B.A. California State University at Hayward, 1972. Health Policy and Management.

Burning Slag: Steelworkers' Fight for Health and Safety.

Nicole Iiliane Dedobbeleer, of Montréal, Quebec, Canada; B.S. Université de Montreal, 1968; M.A., 1970. Behavioral Sciences and Health Education.

Factors Related to Construction Workers' Safety Practices.

Anne Kaszuba Duggan, of Baltimore, Md.; B.A. LeMoyne College, 1971. Health Policy and Management.

Analysis of the Concordance Between Provider Performance and Recording.

James Norman Eastham, Jr., of Flushing, N.Y.; B.A. St. Bonaventure University, 1974; M.A. University of Montana, 1978. Health Policy and Management.

A Construct Validity Analysis of the Abbreviated In-Jury Scale.

Deborah Carrow Glik, of New York, N.Y.; B.A. Barnard College, 1970. Behavioral Sciences and Health Education.

Illness, Wellness, and Healing: Subjective Correlates of Healer Utilization.

Elin Anne Gursky, of Edison, N.J.; B.Sc. Kean College, 1981; M.Sc. University of Michigan, 1983. Health Policy and Management.

The Growth Function of the Vestibular Ocular Reflex (VOR) in Central Vestibular Disease.

Renato d'Affonseca Gusmão, of Rio de Janeiro, Brazil; M.D. Rio de Janeiro State University, 1975; M.P.H. The Johns Hopkins University, 1980. Immunology and Infectious Diseases.

HLA and Immunoregulation in Chronic Chagas' Disease.

Frances Stuart Hanckel, of Philadelphia, Pa.; B.A. Skidmore College, 1976. Health Policy and Management.

American Hospitals in 1910.

William Lawrence Harris, of Virginia Beach, Va.; B.A. University of Virginia, 1967. Health Policy and Management.

The Developmental Sequence of Alcoholism Symptoms.

Constance Mary Horgan, of Wayland, Mass.; B.S. Tufts University, 1968; M.A. Georgetown University, 1974. Health Policy and Management.

The Demand for Ambulatory Mental Health Services.

Elizabeth Harper Howze, of Arlington, Va.; B.A. University of South Florida, 1966. Behavioral Sciences and Health Education.

Social Support and Health Risk Behavioral in Older Married Women.

Bonnie Silverman Kantor, of Rochester, N.Y.; B.A. State of New York at Buffalo, 1975; M.A. University of Rochester, 1979. Health Policy and Management.

The New Scientific Public Health Movement: A Case Study of Tuberculosis in Baltimore, Maryland 1900-1910.

Catherine Kelleher, of Staten Island, N.Y.; B.S.N. Georgetown University, 1969; M.S.N. University of California at San Francisco, 1970; M.P.H. Harvard University, 1979. Health Policy and Management.

Predictors of Length of Stay: A Comparison of Case Mix Adjustment Procedures and Suggested Correlates.

Brian Mahood Kinkead, of Belfast, Northern Ireland; B.A. University of Essex, 1974; M.A. University of Leeds, 1978. Health Policy and Management.

Pricing Policy in the Hospital Industry: An Analysis of Price Structures and Cross Subsidies in Short-Term General Hospitals.

Kenneth Brad Kolodner, of Baltimore, Md.; B.A. Lawrence University, 1976. Behavioral Sciences and Health Education.

Smoking Behavior of Post-Myocardial Infarction Patients.

Daniel Lee Kraushaar, of Coeur d'Alene, Idaho; B.Sc. University of Oregon, 1971; M.P.H. University of Hawaii, 1976. International Health.

Estimating Ambulatory Care Under Insurance in Jakarta, Indonesia.

Shibani Ray Mazumder, of Baltimore, Md.; B.A. Vassar College, 1976; M.S. New York University, 1980. Maternal and Child Health.

The Contribution of Maternal Characteristics to Intrauterine Growth Retardation.

Judy Akila Judy Reitz, of Hampstead, Md.; B.S.N. University of Maryland, 1971; M.S., 1976. Health Policy and Management.

Development and Testing of a Nursing Intensity Index.

Peter D. Rizik, of McLean, Va.; B.A. Carleton College, 1980. Health Policy and Management.

Development of a Statistical Decision Aid for Psychiatric Case Detection in Eastern Baltimore.

Gordon Russell Sandford, of Baltimore, Md.; B.S. Davis and Elkins College, 1969; M.S. The Johns Hopkins University, 1979. Epidemiology.

Genetics of Mouse Cytomegalovirus Susceptibility to Acycloguanosine.

Marcia Mona Sass, of Baltimore, Md.; B.S.R.N. University of Maryland, 1970; M.S.N. University of Pennsylvania, 1974. Health Policy and Management.

The Effect of Infant Health on Maternal Labor Force Participation.

Ursula Scheffel, of Baltimore, Md.; B.S. The Johns Hopkins University, 1976; Sc.M., 1980. Environmental Health Sciences.

Mechanism of ^{67}Gallium Uptake by Liver and Hepatoma.

Michael Joseph Sheridan, of Baltimore, Md.; B.A. Boston College, 1971. Health Policy and Management.

Relationship Between Health Practitioners, Social Network and Physical Health Status.

Devi Bahadur Shrestha, of Dharan, Nepal; B.Sc. Tribhuvan University, 1963; M.S. California State University, 1968. Behavioral Sciences and Health Education.

Factors Associated with Health Behaviors of Rural Population in Jumla, Nepal.

DOCTORS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Anna M. Barish-Sandberg, of Rockville, Md.; B.S. University of Maryland, 1973; M.H.S. The Johns Hopkins University, 1975. Health Policy and Management.

Distribution of Physician Specialists in U.S. Counties.

Vulimir Jagdish, of New Delhi, India; M.B.B.S. Christian Medical College, 1972; M.P.H. The Johns Hopkins University, 1977. International Health.

A Rapid Assessment Methodology for the Collection of Health Information in Developing Countries Using Existing Systems.

Karin Elizabeth Johnson, of Berlin, Md.; B.S.N. University of Maryland, 1963; M.S., 1966. Maternal and Child Health.

The Relationship Between Nutritional Status at Birth and Preschool Cognitive Development in Rural Guatemalan Children.

Catherine Strachan Lindenberg, of San Jose, Costa Rica; B.S.N. Case Western Reserve University, 1966; M.P.H. Yale University, 1971; M.S.N., 1971. Health Policy and Management.

The Effect of Post-partum Mother-Infant Contact and Other Factors on Breast-feeding in Urban Poor Managua, Nicaragua.

Patricia A. Miller, of Silver Spring, Md.; B.S.N. University of Maryland, 1973; M.P.H. The Johns Hopkins University, 1977. Health Policy and Management. (Posthumously).

Patricia D. Moore, of Tempe, Ariz.; B.S.N. Loyola University of Chicago, 1959; M.S.N. Catholic University of America, 1971; M.P.H. The Johns Hopkins University, 1981. Health Policy and Management.

Utilization of Ambulatory Health Services by Hispanics.

M. E. Bonnie Rogers, of Washington, D.C.; B.S.N. George Mason University, 1976; M.P.H. The Johns Hopkins University, 1977. Environmental Health Sciences.

Urine Mutagenicity in Nursing Personnel Who Handle Antineoplastic Agents at Work.

DOCTORS OF PHILOSOPHY

in The School of Hygiene and Public Health

Jacqueline Agnew, of Watertown, Conn.; B.S. Cornell University, 1974; M.P.H. The Johns Hopkins University, 1978. Environmental Health Sciences.

Neurobehavioral Performances of Workers Exposed to Lead for Less Than One Year.

Ray Richard Arthur, Owings Mills, Md.; B.S. The Pennsylvania State University, 1970. Immunology and Infectious Diseases.

Polyomavirus Infections in Bone Marrow Transplant Recipients.

Barbara Fontaine Bass, of Louisville, Ky.; B.A. Trinity College, 1972; B.S., 1976. Environmental Health Sciences.

Alterations of Cholinesterases in the Rat in 2,5-Hexanedione and Acrylamide Induced Neuropathies.

Manuel Bayona-Celis, of Mexico City, Mexico; B.Sc. National University of Mexico, 1971; M.D., 1977. Epidemiology.

A Case-control Study of Prognostic Factors for Ocular Damage in Onchocericasis.

Stephen Joseph Berry, of West Chester, Pa.; B.S. West Chester State College, 1978. Population Dynamics.

A Computer-Assisted Analysis of Spontaneous Benign Prostatic Hyperplasia.

Rosemarie Marilyn Booze, of Salem, Oreg.; B.S. Oregon State University, 1980. Environmental Health Sciences.

Preferential Vulnerability of the Immature Hippocampus to Triethyl Lead: A Probe of Behavioral and Neural Development.

Barbara J. Buckley, of Baltimore, Md.; B.A. University of Delaware, 1978. Environmental Health Sciences.

Toxicology Consequences of Cadmium Oxide Exposure in the Rat Lung.

Barbara Ann Criscuolo, of Silver Spring, Md.; B.S. Virginia Polytechnic Institute and State University, 1978. Biochemistry.

Selection and Characterization of Tunicamycin-resistant Chinese Hamster Ovary Cells.

Kirwin Joseph Darney, Jr., of LaMarque, Texas; B.A. University of Texas, 1974; M.S. University of Houston, 1978. Population Dynamics.

Autoregulation of Testosterone Biosynthesis by the In Vitro Perfused Rat Testis.

Rebecca Dickstein, of Philadelphia, Pa.; B.S. The Pennsylvania State University, 1976. Biochemistry.

Expression of an ESCHERICHIA COLI *DNA Repair Gene in Deficient Human Cells.*

Virginia Kelsey Elahi, of Rochester, N.Y.; B.S. American University, 1968; M.P.H. University of California at Berkeley, 1969. Population Dynamics.

The Demographic Impact of Syphilis and Gonorrhea in the United States in the Twentieth Century.

Janet J. Gailey-Phipps, of Norman, Okla.; B.S. University of Oklahoma, 1970; Sc.M. The Johns Hopkins University, 1980. Immunology and Infectious Diseases.

*Vocal Communication in Spotted Seals (*PHOCA LARGHA*)*

Winifred Still Hayes, of Norristown, Pa.; B.S. University of Maryland, 1971; M.S., 1974. Environmental Health Sciences.

Assault, Battery and Injury of Correctional Officers by Inmates: An Occupational Health Study.

Omar Hottenstein, of Tucson, Ariz.; B.S. Syracuse University, 1973. Environmental Health Sciences.

The Effect of Calcium on the Hypoxic Responses of the Isolated Rat Main Pulmonary Artery.

William John Huster, of Cincinnati, Ohio; B.S. University of Dayton, 1978. Biostatistics.

A Model for Multivariate Survival Data.

Darlene R. Ketten, of St. Louis, Mo.; B.S. Washington University, 1971; M.S. Massachusetts Institute of Technology, 1979. Immunology and Infectious Diseases.

Correlations of Morphology with Frequency for Odontocete Cochlea: Systematics and Topology.

George William Korch, Jr., of Baltimore, Md.; B.A. Boston University, 1974. Immunology and Infectious Diseases.

Ecology of Dermacentor variabilis, Host and Vector of Rocky Mountain Spotted Fever in Maryland.

Selma Cohen Kunitz, of Rockville, Md.; B.A. University of Rochester, 1965; M.S. American University, 1976. Behavioral Sciences and Health Education.

Behavioral Factors Influencing Recovery from Stroke.

Cynthia A. Ladouceur, of Darien, Conn.; B.S. Purdue University, 1979. Immunology and Infectious Diseases.

Immunochemistry of DIROFILARIA IMMITIS *Excretory-Secretory Antigens.*

Maureen A. Lewis, of Washington, D.C.; B.S.F.S. Georgetown University, 1974; M.A., 1977. Population Dynamics.

The Determinants of Infant Mortality in Jordan: An Econometric Approach.

Yu-Wai Peter Lin, of Hong Kong; B.Sc. University of Wisconsin, 1979. Population Dynamics.

Intrafollicular Actions of Estrogen in Regulating Oocyte Maturation.

Jan Alan Markowitz, of Baltimore, Md.; B.Sc. University of Rhode Island, 1973; Sc.M. The Johns Hopkins University, 1977. Epidemiology.

Acute Nonlymphocytic Leukemia: A Population Based Epidemiologic Study.

Marti Leah Messerli, of San Francisco, Calif; B.A. University of California at Berkeley, 1978. Epidemiology.

Epidemiology of Gestational Trophoblastic Neoplasia.

Angela Denise Mickalide, of Lewiston, Maine; B.A. Colby College, 1979. Behavioral Sciences and Health Education.

Children's Cognitive and Affective Response to Insect Sting Allergy.

Roscoe Michael Moore, Jr., of Richmond, Va.; B.S. Tuskegee Institute, 1968; D.V.M., 1969; M.P.H. University of Michigan, 1970; M.H.S. The Johns Hopkins University, 1982. Epidemiology.

The Relationship of Birth Weight and Intra-uterine Diagnostic Ultrasound Exposure.

Gbolahan Afolabi Oni, of Abeokuta, Nigeria; B.Sc. Universit yof Lagos, 1974; M.Sc. University of London, 1979. Population Dynamics.

The Effects of Women's Education on Postpartum Nonsusceptible Period in Ilorin, an Urban Community in Nigeria.

Rubina Jamshed Patel, of Karachi, Pakistan; A.B. Hood College, 1977; Sc.M. The Johns Hopkins University, 1980. Immunology and Infectious Diseases.

Isolation of Mycobacterial DNA and Analysis by Restriction Endonuclease Digestion.

Richard Ira Pine, of Raynham, Mass.; B.S. University of Massachusetts at Amherst, 1978. Biochemistry.

In Vitro Mutagenesis of Metallothionein Coding Sequences for Structure-Function Studies.

Scott Howard Randell, of Brooklyn, N.Y.; B.S. State University of New York at New Paltz, 1979. Environmental Health Sciences.

Studies on Experimental Pulmonary Granulomatosis and Fibrosis in Rats.

Elisabeth P. Roberts, of Rosemont, Pa.; B.S. Marietta College, 1974. Immunology and Infectious Diseases.

An Ecologic Study of Canine Dirofilariasis in the Field and Laboratory.

Paul Douglas Sorlie, of Silver Spring, Md.; B.A. University of Minnesota, 1965; M.S., 1968. Epidemiology.

Variation in the Certification of Chronic Ischemic Heart Disease Deaths in Maryland.

Charles Bolt Stephensen, of Fresno, Calif.; B.S. University of California, 1978; M.S. Cornell University, 1980. Immunology and Infectious Diseases.

Development of the Oral Magnesium/Breath Hydrogen Test: A Non-Invasive Test of Gastric Acid Secretion.

Jan Elise Storm, of Washington, D.C.; B.S. University of Maryland, 1975; M.S. George Mason University, 1979. Environmental Health Sciences.

Alterations in Postnatal Neuronal Development Following Mild Chronic Carbon Monoxide Exposure.

Gail Wiscarz Stuart, of Baltimore, Md.; B.S. Georgetown University, 1971; M.S. University of Maryland, 1973. Behavioral Sciences and Health Education.

Nursing Participation in Hospital Decision Making.

Ellen J. Winchell, of Shiremanstown, Pa.; B.S. The Pennsylvania State University, 1973; M.A. Boston University, 1975. Immunology and Infectious Diseases.

S-Antigens of PLASMODIUM FALCIPARUM: *Their Origin, Stage-Specificity and Biochemical Nature.*

Howard Wineberg, of Colonia, N.J.; B.A. Bowling Green State University, 1977; M.A., 1980. Population Dynamics.

The Timing of Marriage and First Birth and Their Impact on Subsequent Fertility.

Marc Sverre Wold, of St. Paul, Minn.; B.S. California Institute of Technology, 1979. Biochemistry.

Replication of the Bacteriophage Lambda Replicon IN VITRO: *Characterization of a Model Prokaryotic Replication System.*

Diane K. Wysowski, of Kewanee, Ill.; B.S.N. Loyola University of Chicago, 1969; M.P.H. The Johns Hopkins University, 1974. Epidemiology.

A Study of the Association Between Breast Cancer and Gallbladder Disease.

Nancy V. Yinger, of Washington, D.C.; B.A. Carleton College, 1974; M.A. The Johns Hopkins University, 1976. Population Dynamics.

Women's Economic Contribution, Relative Income and Fertility Decision-making in Malaysia.

DOCTORS OF PHILOSOPHY

in The School of Advanced International Studies

Sergio Aguayo Quezada, of Mexico City, Mexico; B.A. El Colegio de Mexico, 1975; M.A. The Johns Hopkins University, 1977.

An Essay on the Evolution of World Views and Ideologies in the United States, Mexico as Reflected in the New York Times from 1946-1979.

Stephen R. Grummon, of Burke, Va.; B.A. Cornell University, 1969; M.A. The Johns Hopkins University, 1974.

The Rise and Collapse of the Arab Shaykhdom of Bûshire: 1750-1850.

Daniel Sheldon Hamilton, of Overland, Mo.; B.S. Georgetown University, 1977; M.A. The Johns Hopkins University, 1979.

The Carrot and the Stick: German and American Approaches to East-West Trade, 1945-1985.

Larry R. Kohler, of Geneva, Switzerland; B.A. Michigan State University, 1968; M.A. Carleton University, 1970.

Canadian/American Oil Diplomacy: The Adjustment of Conflicting National Oil Policies 1955-1973.

Charlotte Leighton, of Owings, Md.; B.A. Smith College, 1967; M.A. University of Maryland, 1973.

Community Participation: How Effective Is It for Rural Development?

Amparo Menendez Carrion, of Lima, Peru; B.A. University of Minnesota, 1973; M.A. The Johns Hopkins University, 1975.

The 1952-1978 Ecuadorean Presidential Elections and the Urban Poor of Guayaquil: A Micro-Analysis of Electoral Behavior.

Kuross A. Samii, of Washington, D.C.; B.A. Central Connecticut State College, 1973; M.A. Georgetown University, 1977.

Involvement by Invitation: The American Experience in Iran.

DOCTORS OF MEDICINE

in The School of Medicine

Sharon Elizabeth Adams, of St. Paul, Minn.; B.A. Bethel College, 1977.

Nancy Allbritton, of Gonzales, La.; B.S. Louisiana State University, 1979.

Peter Joseph Anderson, of Jamestown, N.D.; B.A. Jamestown College, 1981.

Patricia Angueira, of Roosevelt, Puerto, Rico; B.A. Bryn Mawr College, 1981.

Diane Smith Annalett, of Grand Island, N.Y.; B.S. Niagara University, 1981.

Dennis Stevens Barlow, of Eastford, Conn.; B.S. University of Connecticut, 1981.

Patrick E. Barta, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1978.

Carolyn Marie Bennett, of San Antonio, Texas; B.A. The Johns Hopkins University, 1981.

Lynn Kathleen Bickley, of Milltown, N.J.; B.S. Albright College, 1981.

Michael Alexander Breda, of Mercer Island, Wash.; B.S. University of Washington, 1981.

Beth Shapiro Bromberg, of Glen Cove, N.Y.; B.A. Wellesley College, 1981.

Warren Douglas Bromberg, of Springfield, N.J.; B.A. Dartmouth College, 1981.

Michael Raymond Bubb, of Mitchell, S.D.; B.S. South Dakota State University, 1981.

Anthony Ray Burgan, of Dayton, Ohio; B.A. The Johns Hopkins University, 1982.

Craig Alan Butler, of Wichita, Kans.; B.S. United States Air Force Academy, 1981.

David Paul Carbone, of Madison, Wis.; B.A. Amherst College, 1977.

James Paul Carl, of Rochester, N.Y.; B.S. University of Rochester, 1981.

Grace Lynn Chien, of Winnetka, Ill.; B.A. The Johns Hopkins University, 1982.

Norman Allen Cohen, of Canoga Park, Calif.; B.A. The Johns Hopkins University, 1981.

Todd Jay Cohen, of Short Hills, N.J.; B.A. The Johns Hopkins University, 1981.

John Matthew Colford, Jr., of Milpitas, Calif.; B.S. University of Santa Clara, 1981.

Joan Marie Tholen Collison, of Elkridge, Md.; B.S. University of Kansas, 1981.

James Michael Corkum, of Brockton, Mass.; B.S. Stonehill College, 1981.

Paul Martin Craig, of Spokane, Wash.; B.S. Stanford University, 1981.

Tracey Ellen Doering, of North Windham, Maine; B.A. Rutgers University (New Brunswick), 1981.

George Mark Doyle, of Oak Ridge, Tenn.; B.S. Oakland University, 1981.

Nancy Ann Drucker, of Rochester, N.Y.; B.A. Smith College, 1981.

Philip Neal Effron, of Springfield, N.J.; B.A. The Johns Hopkins University, 1981.

Erin Daugherty Ellis, of Winchester, Mass.; B.A. Princeton University, 1981.

William John Ellis, of Bend, Oreg.; B.A. Stanford University, 1981.

Elizabeth Carson Engle, of Columbus, Ohio; B.A. Middlebury College, 1980.

Lisa Susan Etzwiler, of Edina, Minn.; B.A. Yale University, 1981.

Timothy Joel Garrand, of Mooers, N.Y.; B.S. St. Lawrence University, 1981.

Patricia Lambert Garver, of Westfield, N.J.; B.A. Smith College, 1980.

Steven Andrew Geller, of Bronx, N.Y.; B.S. Union College, 1981.

Edward Morris Goldstein, of Milwaukee, Wis.; B.S. University of Wisconsin (Madison), 1981.

Thomas Paul Gross, of Stockton, Calif.; B.A. University of Southern California, 1981.

Daniel Minasse Haile, of West Orange, N.J.; B.A. Harvard University, 1981.

David Johannes Haile, of West Orange, N.J.; B.A. The Johns Hopkins University, 1981.

Christine Childers Harter, of Baltimore, Md.; B.S. Vanderbilt University, 1980.

Elaine C. Hefty, of Valley Falls, Kans.; B.A. Kansas State University, 1979; B.A. University of Oxford, 1981.

Barry Lynn Hendrickson, of Belle Fourche, S.D.; ,B.S. South Dakota State University, 1981.

Matthew Richard Holland, of Los Angeles, Calif.; B.A. Colorado College, 1981.

Ralph Harvey Hruban, of Chicago, Ill.; B.A. University of Chicago, 1981.

Christopher Gregory Jacobs, of Roslyn, N.Y.; B.A. The Johns Hopkins University, 1981.

Ross Allan Jaffe, of Suffolk, Va.; B.A. Dartmouth College, 1980.

Christine Joan Julian, of Saltsburg, Pa.; B.A. Northwestern University, 1980.

Otto Kausch, of San Francisco, Calif.; B.A. The Johns Hopkins University, 1981.

Robert Edward Kelly, Jr., of Huntsville, Ala.; B.S. Spring Hill College, 1981.

Melissa Buffington King, of Havertown, Pa.; B.A. Franklin and Marshall College, 1981.

Benjamin Denny Knox, of Baltimore, Md.; B.A. Dartmouth College, 1981.

Barry Evan Kosofsky, of North Hills, N.Y.; B.A. The Johns Hopkins University, 1978; M.A., 1978.

Paul C. Kuo, of Rancho Palos Verdes, Calif.; B.A. The Johns Hopkins University, 1982.

Margaret Lei Kurohara, of Pasadena, Calif.; B.A. Smith College, 1981.

Jackson Kemper La Budde, of Milwaukee, Wis.; B.S. Cornell University, 1980.

Christina Mary Link, of Pittsburgh, Pa.; B.S. University of Pittsburgh, 1981.

Robert Alan Livingston, of El Dorado, Kans.; B.A. University of Kansas, 1981.

Robert Andrew Luke, of Skokie, Ill.; B.A. Northwestern University, 1981.

Steven Craig Marks, of Grand Rapids, Mich.; B.S. University of Michigan, 1981.

Robert David Mashal, of West Vancouver, Canada; B.A. The Johns Hopkins University, 1981.

Micheline Bernadette McCarthy, of Miami, Fla.; B.A. Smith College, 1972; A.M. Harvard University, 1974; Ph.D. 1977.

Daniel Joseph McGraw, of North Syracuse, N.Y.; B.A. Dartmouth College, 1981.

Jeffrey Brian McIntosh, of Evanston, Ill.; B.A. Illinois Wesleyan University, 1981.

Ruth Murray McSloy, of Wilmington, Del., B.S. University of Delaware, 1980.

Susan Mary Melley, of Falls Church, Va.; B.S. University of Notre Dame, 1981.

Kevin Michael Miller, of Upper Marlboro, Md.; B.E.S. The Johns Hopkins University, 1981.

William Clarence Miller, of Binghamton, N.Y.; B.A. Princeton University, 1981.

Martha Elizabeth Milner, of Springfield, Va.; B.S. American University, 1980.

Michael Patrick Mullane, of Kenosha, Wis.; B.S. University of Wisconsin at Parkside, 1981.

Timothy Garrett Murray, of Las Vegas, Nev.; B.A. The Johns Hopkins University, 1981.

Philip Charles Nevin, of Syracuse, N.Y.; B.S. Cornell University, 1981.

Cuong Cao Nguyen, of Claremont, Calif.; B.A. The Johns Hopkins University, 1981.

Margaret Eileen O'Donoghue, of Stratford, Conn.; B.S. Fairfield University, 1981.

Elizabeth O'Hearn, of Wilton, Conn.; B.S. Yale University, 1981.

Kenneth Leroy Parish, of Maben, Miss.; B.A. The Johns Hopkins University, 1982.

Jon Alan Peacock, of Spirit Lake, Iowa; B.S. Iowa State University, 1977.

Kevin Darryl Phillips, of Miami, Fla.; B.A. University of Nebraska (Omaha), 1981.

Richard Michael Pomerantz, of Scarsdale, N.Y.; B.A. The Johns Hopkins University, 1982.

John Maurice Porter, of West Coxsackie, N.Y.; B.S. Davidson College, 1981.

Peter Jude Quandt, of Milwaukee, Wis.; B.A. Washington University in St. Louis, 1981.

David Shepherd Raiford, of Rockville, Md.; B.S. Massachusetts Institute of Technology, 1981.

John David Reed, Jr., of North Manchester, Ind.; B.S. University, 1981.

John Charles Rivard, of Battle Creek, Mich.; B.S. Michigan State University, 1981.

Elizabeth Ann Roche, of Springfield, Mass.; B.S. Yale University, 1981.

Alan Aaron Rosen, of New York, N.Y.; B.A. Cornell University, 1981.

Steven Alan Rosen, of Oceanside, N.Y.; B.A. University of Rochester, 1981.

Marc Jay Safran, of Brooklyn, N.Y.; B.S.E. Princeton University, 1980.

Charles Lazelle Sawyers, of Nashville, Tenn.; B.A. Princeton University, 1981.

Sanford Howard Schaps, of Lynbrook, N.Y.; B.A. The Johns Hopkins University, 1981.

Margaret Ann Sheehan, of St. Louis, Mo.; B.A. Colorado College, 1981.

Steven Ira Sherman, of Whitestone, N.Y.; B.A. Harvard College, 1981.

Sandra Christine Short, of Spencerport, N.Y.; B.A. University of Delaware, 1981.

Eric Simball, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980.

Jonathan Wilson Simons, of Ithaca, N.Y.; B.A. Princeton University, 1980.

Pamela Beth Sklar, of Baltimore, Md.; B.A. St. John's College (Annapolis), 1981.

Donald Small, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979.

Kevin Paul Speer, of Evansville, Ind.; B.A. Indiana University, 1981.

Eric David Spitzer, of Irvington, N.Y.; B.S. M.S. Yale University, 1977.

Beth Ann Stewart, of Eighty-Four, Pa.; B.S. Pennsylvania State University, 1981.

Lucy Rusk Sutphen, of Sag Harbar, N.Y.; B.A. Princeton University, 1979.

Ming Tan, of Miami, Fla.; B.S. University of Florida, 1981.

Thomas Haymond Tuszynski, of Divide, Colo.; B.A. The Johns Hopkins University, 1982.

Adriana Uribe, of Laredo, Texas; B.S. Yale University, 1981.

John William Walsh, of Akron, Ohio; B.A. Pennsylvania State University, 1981.

Edward Shang Jen Wang, of San Diego, Calif.; B.A. The Johns Hopkins University, 1981.

Paul Brian Warfield, of Baltimore, Md.; B.A. Western Maryland College, 1981.

Karen Michele Webster, of Bronx, N.Y.; B.A. Brandeis University, 1981.

Franklin Charles Wefald, of Gaithersburg, Md.; B.A. Princeton University, 1981.

Arnold-Peter Christoph Weiss, of Lathrup Village, Mich.; B.A. Johns Hopkins University, 1982.

Maureen Patricia Whalen, of Holmdel, N.J.; B.A. The Johns Hopkins University, 1982.

Joseph Byron Wiley, of Chicago, Ill.; B.A. Drake University, 1979.

Steven M. Willi, of North Massapequa, N.Y.; B.A. The Johns Hopkins University, 1981.

Hank Cheng-Kong Wuh, of Honolulu, Hawaii; B.A. The Johns Hopkins University, 1981; M.P.H. Harvard University, 1985.

Alan Mark Yahanda, of Fairfax Station, Va.; B.A. University of Virginia, 1981.

Elizabeth Anne Yardley, of Baltimore, Md.; B.A. University of Chicago, 1980.

Daniel Shih-en Yuan, of Gainesville, Fla.; B.A. The Johns Hopkins University, 1981.

David Michael Zientek, of Amarillo, Texas; B.A. The Johns Hopkins University, 1981.

DOCTORS OF PHILOSOPHY

in The School of Medicine

Patrick E. Barta, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1978. Department of Biomedical Engineering.

Testing Stimulus Encoding in the Auditory Nerve.

Carol Creighton Blackburn, of Baltimore, Md.; A.B. Bowdoin College, 1977. Pharmacology and Experimental Therapeutics.

Glycolipid-mediated Cell Adhesion: A Potential Role for Gangliosides in Neuronal Recognition.

Emmett Loren Buhle, Jr., of Media, Pa.; B.A. Gettysburg College, 1980. Biochemistry, Cellular and Molecular Biology Program—Cell Biology and Anatomy.

The Structural Analysis of Membrane Proteins as Determined by High Resolution Electron Microscopy.

David P. Carbone, of Baltimore, Md.; B.A. Amherst College, 1977. Biochemistry, Cellular and Molecular Biology Program—Molecular Biology and Genetics.

The Isolation of Rat Genomic Sequences Cable of Replacing Elements of the Simian Virus 40 Early Promoter.

Andrew S. Greene, of Baltimore, Md.; B.S. Syracuse University, 1980. Biomedical Engineering.

Modifications of the Simultaneously Determined Cardiac Function and Venous Return Curves by the Carotid Sinus Baroreflex in the Dog.

Brian Douglas Halligan, of Baltimore, Md.; B.S. Cornell University, 1980. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Studies on Mammalian DNA Topoisomerases.

Alice Faith Irmiere, of Wayne, N.J.; B.S. Rutgers College, 1979. Biochemistry, Cellular and Molecular Biology—Pharmacology and Experimental Therapeutics.

Assembly of Cytomegalovirus Noninfectious Enveloped Particles (NIEPS) and Virions.

Kevin A. Kelley, of Whitehall, N.Y.; B.S. Rensselaer Polytechnic Institute, 1980. Biochemistry, Cellular and Molecular Biology—Molecular Biology and Genetics.

Molecular Analysis of Murine Interferons.

Barry Emmett Knox, of Claymont, Del.; B.S. Cornell University, 1980. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Voltage Induced ATP Synthesis and its Implications for Mitochondrial F_0F_1 ATPase.

Kerry Jean Koller, of Sherman Oaks, Calif.; B.S. Stanford University, 1980. Biochemistry, Cellular and Molecular Biology—Neuroscience.

The Purification and Pharmacologic Characterization of N-Acetyl-Aspartyl-Glutamate, A Possible Excitatory Neurotransmitter.

Barry Evan Kosofsky, of North Hills, N.Y.; B.A., M.A. The Johns Hopkins University, 1978. Cell Biology and Anatomy.

The Anatomic Organization of Serotonergic Projections to Cerebral Cortex.

Laura Ellen Lerner, of Bethesda, Md.; B.A. Reed College, 1975. Biomedical Engineering.

A Multinuclear NMR Study of Cartilage Proteoglycans.

Amy Patrice Norden, of Bowie, Md.; B.S. University of Maryland, 1980. Pharmacology and Experimental Therapeutics.

Identification and Characterization of Immunogenic Schistosoma Glycoproteins that are Species-specific, Stage-specific, or React with Sera from Hosts Infected with Other Parasites.

James Mukasa Ntambi, of Kampala, Uganda; B.Sc. Makerere University, 1975; M.Sc. 1978. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

The Replication of Kinetoplast DNA in Trypanosoma equiperdum.

Marilyn Louise Pifer, of Seabrook, Md.; B.S., M.S. Stanford University, 1977. Biochemistry, Cellular and Molecular Biology—Molecular Biology and Genetics.

A Plasmid System for the Investigation of Transformation in Haemophilus Influenzae.

Janet Madeline D'Angelo Siliciano, of Brookline, Mass.; B.A. University of New Hampshire, 1977. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Identification, Purification, and Characterization of Meta-vinculin, A Novel Cytoskeletal Protein in Smooth Muscle.

Donald Small, of Baltimore, Md.; B.A. The Johns Hopkins University, 1979. Biochemistry, Cellular and Molecular Biology—Pharmacology and Experimental Therapeutics.

The Organization of DNA Sequences with Respect to the Nuclear Matrix.

Eric David Spitzer, of Irvington, N.Y.; B.S., M.S. Yale University, 1977. Biochemistry, Cellular and Molecular Biology—Molecular Biology and Genetics.

A Mutation in Escherichia coli Affecting DNA Replication and Pantothenate Metabolism.

Willis Anne Burton Theibert, of Baltimore, Md.; A.B. Goucher College, 1979. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Studies of the cAMP Mediated Aggregation in Dictyostelium discoideum: Receptor Mediated Activation of the Adenylate Cyclase.

Carmen-Rosa Torres Méndez, of Caracas, Venezuela; Licenciatura in Chemistry, Simon Bolivar University, 1977. Biochemistry, Cellular and Molecular Biology—Biological Chemistry.

Topography and Polypeptide Distribution of Terminal N-Acetylglucosamine Residues on the Surfaces of Intact Cells. Evidence for O-Linked GlcNAc.

Richard Bruce van Breemen, of Salisbury, Md.; B.A. Oberlin College, 1980. Pharmacology and Experimental Therapeutics.

Electrophilic Reactions of 1-0-Acyl Glucuronides.

DOCTORS OF PHILOSOPHY

in The G.W.C. Whiting School of Engineering

Alok Aggarwal, of New Delhi, India; B.Tech. Indian Institute of Technology, 1980. Electrical Engineering and Computer Science.

The Art Gallery Theorem: Its Variations, Applications and Algorithmic Aspects.

Gary Anderson, of Baltimore, Md.; B.Architecture University of Southern California, 1970; M.Urban Design, 1971. Geography and Environmental Engineering.

Differential Urban Growth in the Eastern Province of Saudi Arabia: A Study of the Historical Interaction of Economic Development and Socio-Political Change.

Perry Anthony Appino, of Winter Park, Fla.; B.S. Lehigh University, 1979. Geography and Environmental Engineering.

A Solution Technique for Approximating the Noninferior Set of Three-Objective Linear Programs.

Mary Lynn Baeck, of Baltimore, Md.; B.A. University of Maryland at Baltimore County, 1978. Geography and Environmental Engineering.

Sampling Program Design for Lakes and Reservoirs Using A Variance Component Method.

Bart Emil Bennett, of Northridge, Calif.; B.S. University of California at Los Angeles, 1979; M.S.E. The Johns Hopkins University, 1983. Mathematical Sciences.

Modeling and Analysis of a Two-Level Production Scheduling Problem.

Mostefa Djamel Boussouf, of Mila, Algeria; M.C.E. Catholic University, of America, 1980. Civil Engineering.

Stiffened and Prestressed Composite Overwrapped Pressure Vessel.

Ralph S. Budwig, of El Paso, Texas; B.S. University of Colorado, 1977. Chemical Engineering.

Two Unsteady Heat Transfer Experiments: I. In Grid-Generated Osotropic Turbulence, II. In Laminar Oscillatory Flow in Straight and Conical Round Tubes.

Elizabeth Ann Casman, of Chevy Chase, Md.; B.S. Syracuse University, 1971; M.S. Northern Arizona University, 1977. Geography and Environmental Engineering.

D-optimal Sampling Designs for the Streeter-Phelps Model.

Albert Kwok-Tung Cheung, of Kowloon, Hong Kong; B.A. Berea College, 1977; M.S.E. The Johns Hopkins University, 1979. Mathematical Sciences.

Network Optimization in Ecosystem Development Analysis.

Japobrata Choudhury, of Chittagong, Bangladesh; B.Sc. University of Dacca, 1965; M.Sc., 1966; M.S.E. The Johns Hopkins University, 1981. Mathematical Sciences.

Sequential Fixed-Width Confidence Intervals Based on Generalized Order Statistics, and a Study of Generalized Hodges-Lehmann Location Estimators.

James Bowen Clark, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1978; M.S. Renssalaer Polytechnic Institute, 1980. Materials Science and Engineering.

Effect of Grain Boundary Structure on the Superplasticity of Zinc and Zinc Alloys.

Mark Michael Clark, of Baltimore, Md.; B.S. University of Missouri, 1974; M.S., 1978. Geography and Environmental Engineering.

Drop Breakup in a Turbulent Flow.

Vimalkumar Haribhai Desai, of Baroda, India; B.E. Mechanical Maharaja Sayajirao University, 1973. Materials Science and Engineering.

Stress Corrosion Cracking Studies of Surgical Implant Alloys.

Henry S. Eden, of Columbia, Md.; B.A. Boston University, 1970; M.D., 1970. Electrical Engineering and Computer Science.

Compact, Time-Domain Displays of Speech Signals.

Charles Raymond Flynn, of North Weymouth, Mass.; Engineering Diploma, Memorial University of Newfoundland, 1969. Geography and Environmental Engineering.

Development and Application of Thermal Discharge Models to a Boundary Limited Case.

Carl Lee Friant, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1979; M.S.E., 1982. Materials Science and Engineering.

Elastic Properties and Thermal Stability Characterization of Metallic Glasses by Guided Wave Techniques.

Yoopyo Hong, of Laurel, Md.; B.S. University of Maryland, 1971; M.S.E. The Johns Hopkins University, 1984. Mathematical Sciences.

Consimilarity: Theory and Applications.

Vitit Kantabutra, of Philadelphia, Pa.; B.Engineering McGill University, 1979. Electrical Engineering and Computer Science.

The Movement of Multilink Robot Arms in Two-dimensional Regions.

Tzyy Shan Lin, of Taipei, Taiwan; M.S. University of Tokyo, 1980. Civil Engineering.

Load Space Formulation of Reliability for Nonnlinear Random Structural Systems.

Arunpal Singh Malik, of New Delhi, India; B.A. Bowdoin College, 1978. Geography and Environmental Engineering.

Noncompliance and the Economic Theory of Pollution Control.

Timothy Scott Margulies, of San Francisco, Calif.; M.S.E. The Johns Hopkins University, 1976. Mechanics and Materials Science.

Physical Acoustics: Investigation of Chemical Kinetic and Thermodynamic Properties of Fluids.

Charles Jay Richman, of New York, N.Y.; B.S. University of Rochester. 1978. Geography and Environmental Engineering.

Multiobjective Optimization of Stormwater Detention for Stream Channel Protection.

Phoebe Dadakis Sharkey, of Baltimore, Md.; B.A. Duke University, 1962. Geography and Environmental Engineering.

A Multiobjective Model to Develop and Evaluate Payment Formulae for Medicare Prospective Payment Rates.

Michael Sheppard Silver, of Toronto, Canada; B.S. Lafayette College, 1977; M.A. The Johns Hopkins University, 1979. Electrical Engineering and Computer Science.

Selective Pulse Analysis: Generation of Highly Selective $\pi/2$ and π Pulses for Nuclear Magnetic Resonance Applications.

Andrew Gordon Tallin, of Winnipeg, Canada; B.Sc.C.E. University of Manitoba, 1978; M.Sc., 1980. Civil Engineering.

Wind Induced Motion of Tall Buildings.

James Warren Wagner, of Washington, D.C.; B.S.E.E. University of Delaware, 1975; M.S.C.E. The Johns Hopkins University, 1978. Materials Science and Engineering.

Heterodyn Holographic Interferometry for Visualization of Surface Acoustic Waves.

Dana A. Walker, of Baltimore, Md.; B.S. University of Virginia, 1971. Chemical Engineering.

Measurements on Axisymmetric Jet in a Slow Coflowing Stream.

John William Whitney, of Boulder, Colo.; B.A. Franklin and Marshall College, 1970. Geography and Environmental Engineering.

The Geology and Geomorphology of the Helmand Basin, Afghanistan: A Study of the Environmental and Geologic Processes that Affected the Survival of Desert Civilizations in Sistan.

Mark Robert Wiesner, of Omaha, Neb.; B.A. Coe College, 1978; M.S. The University of Iowa, 1980. Geography and Environmental Engineering.

Optimal Water Treatment Plant Configuration: Effects of Raw Water Characteristics.

Eun Sang Won, of Seoul, Korea; B.S. Korea Military Academy, 1968; M.S. Naval Postgraduate School at Monterey, California, 1972. Mathematical Sciences.

Algorithms for Ordinal Two-Person Games.

James Caldwell Wood, of Louisville, Ky.; B.A. Georgetown University, 1969. Geography and Environmental Engineering.

Managing Hazardous Wastes: Location Decision.

DOCTORS OF PHILOSOPHY

in The School of Arts and Sciences

Finn Aaserud, of Fredrikstad, Norway; B.S. Universitetet I Oslo, Norway, 1972; M.S., 1976. History of Science.

The Redirection of the Niels Bohr Institute in the 1930's: Response to Changing Conditions for Basic Science Enterprise.

Marguerite Thabit Abdul-Masih, of Kuwait, Kuwait; B.A. Bryn Mawr College, 1978. Chemistry.

Biochemical Studies on the Synthesis of 6-N-Hydro xylaminopurine Deoxynucleoside Triphosphate and its Incorporation into Deoxyribonucleic Acid.

Janan Arif Al-Awar, of Rockville, Md.; B.S. American University of Beirut, 1977. Psychology.

An Instrument for Evaluating the Use of Speech in Computer Communication.

Eskander Alvi, of Bangladesh, Bangladesh; B.S.S. University of Dacca, 1978; M.A. The Johns Hopkins University, 1983. Political Economy.

Three Essays on the Theory of Unemployment.

Mark Anderson, of Baltimore, Md.; B.A. Wesleyan College, 1978. Humanities.

Kafka's Clothes.

Amy Gerard Barrett, of East Windsor, N.J.; B.A. Cornell University, 1976; M.A. The Johns Hopkins University, 1980. English.

The English Political Context of Wordsworth's Lyrical Ballads.

Margaret Lamberts Bendroth, of Washington, D.C.; B.A. Cornell University, 1976; M.A. The Johns Hopkins University, 1981. History.

The Social Demensions of 'Women's Sphere': The Rise of Women's Organizations in Late Nineteenth-Century American Protestantism.

Timothy Albert Bennett, of Asheville, N.C.; B.A. Wittenberg University, 1978. German.

The Symbolic Figure of the 'Renaissance Woman' in Cultural Context: Selected Italian Novellas of Paul Heyse, Isolde Kurz, and Heinrich Mann.

Eleftheria A. Bernidaki-Aldous, of Baltimore, Md.; B.A. University of Rochester, 1974; M.A. The Johns Hopkins University, 1974; M.A., 1979. Classics.

Blindness in a Culture of Light: Especially the Case of Oedipus at Colonus of Sophocles.

Michael Keith Briand, of Benton Harbor, Mich.; B.G.S. The University of Michigan, 1974; M.A. The Johns Hopkins University, 1982. Political Science.

A Theory of Freedom and Value.

James Gerald Brophy, of Northampton, Maine; B.A. Amherst College, 1977. Earth and Planetary Sciences.

The Chemistry and Physics of Aleution Arc Volcanism: The Cold Bay Volcanic Center, Southwest Alaska.

Lynne Patricia Brown, of Washington, D.C.; B.A. Smith College, 1974. Political Science.

Dilemmas of Party Leadership: Majority Whips in the U.S. House of Representatives, 1962-1984.

Rufus Watson Burlingame, of Albany, N.Y.; B.S. State University of New York at Stony Brook, 1976. Biology.

The Structure of the (H2A-H2B-H3-H4) Histone Octamer at 3.3A Resolution.

Doris Ann Cadigan, of Neptune, N.J.; B.A. Chestnut Hill College, 1980. Sociology.

Health Care Utilization by the Elderly: An Application of the Anderson Model.

Deborah A. Caro, of Wheaton, Md.; B.A. Cornell University, 1975. Anthropology.

'Those Who Divide Us': Resistance and Change Among Pastoral Aylluis in Ulla Ulla, Bolivia.

Rosalina de la Carrera, of Amherst, Mass.; M.A. Cornell University, 1977. French.

Paradoxes of Communication in Diderot's Fictional, Historical and Philosophical Writings.

Barbara Castens-Seidell, of Seaford, N.Y.; B.A. Bucknell University, 1979. Earth & Planetary Sciences.

The Anatomy of a Modern Marine Siliciclastic Sabkha in a Rift Valley Setting: Northwest Gulf of California Tidal Flats, Baja California, Mexico.

Charles Clifton Chancey III, of Cincinnati, Ohio; B.A. Miami University, 1977; M.A. The Johns Hopkins University, 1980. Physics and Astronomy.

Approximate Analytical Treatments of the Ex_ϵ *and* $T \times (E + \tau_\gamma)$ *Jahn-Teller Effects.*

Jonathan Mitchell Cutler, of Washington, D.C.; B.A. Amherst College, 1980; M.A. The Johns Hopkins University, 1982. Earth and Planetary Sciences.

Inhomogeneous Deformation: The Theory and Application of Finite Strain Compatibility.

Deborah K. Diamond, of New York, N.Y.; B.A. University of Rochester, 1973; M.A. The Johns Hopkins University, 1976. German.

The Freie Volksbühne 1890-1896: An Experiment in Aesthetic Education.

Richard W. Eastes, of Ann Arbor, Mich.; B.S. Tennessee Technological University, 1978; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

Ultraviolet Spectroscopy of the Earth's Dayglow and Magnetospheric Cleft.

Robert Lee Edmonds, of Baltimore, Md.; B.S. Loyola College, 1973; M.A. The Johns Hopkins University, 1980. Earth and Planetary Sciences.

Evolution of the Oceanic Upper Mantle and Effects on Sea Floor Subsidence, Geoid Height and Heat Flow.

Mark Andrew Edwards, of Statesboro, Ga.; B.S. Georgia Southern College, 1977. Physics and Astronomy.

A Study of the Interaction of Atoms with Strong Laser Fields.

David Wayne Emmons, of Ann Arbor, Mich.; B.A. Duke University, 1976; M.A. University of Texas at Austin, 1978; M.A. The Johns Hopkins University, 1980. Political Economy.

Essays on the Existence of Equilibria in Measure Theoretic Public Goods Economies.

Thomas John Fillion, of Ann Arbor, Mich.; B.A. Middlebury College, 1976; M.A. University of Michigan, 1978; M.A. The Johns Hopkins University, 1982. Psychology.

Suckling and the Development of Male Sexual Responsiveness to Estrous Chemo-stimuli in Rats.

Leah Lynn Frye, of Moscow, Idaho; B.S. University of Idaho, 1979. Chemistry.

Part I: Diastereoselective Conjugate Additions to Enantiomerically Pure 2-(Arylsulfinyl)-Cycloalkenones and 2-(p-Tolylsulfinyl)-2-Buten-4-Olide: Preparation of (R)-3-Substituted Cycloalkanones and (-)-Podorhizon. Part II: One-Pot Carbon-Carbon and Carbon-Fluorine Bond Formation.

Carl Ruth Gardner, of Winston-Salem, N.C.; B.A. Barnard College, 1977; M.A. The Johns Hopkins University, 1980. English.

The Dark Side of the Comic Novel: Studies in Nineteenth-Century Fiction.

John Brendan Godfrey, of South Hadley, Mass.; B.A. University of Toronto, 1973; M.A. The Johns Hopkins University, 1978. History.

Overseas Trade and Rural Change in Nineteenth Century Morocco: The Social Region and Agrarian Order of the Shawiya.

Jeanne Elaine Griffith, of Washington, D.C.; B.A. College of William and Mary, 1971; M.A. University of Pennsylvania, 1972; M.S. George Washington University, 1977. Sociology.

Unemployment, Occupational Mobility, and Retirement: A Survey of Policies and Experiences.

Sally Foreman Griffith, of Lusk, Wyo.; B.A. Radcliffe College, 1974; M.A. The Johns Hopkins University, 1980. History.

Home Town News: William Allen White and the Emporia Gazette, 1895-1930.

Scott Evan Guggenheim, of New York, N.Y.; B.A. City University of New York, 1975. Anthropology.

Proletarianization and Political Change in the Northern Philippines.

Drayton Sims Hamilton, of Montgomery, Ala.; B.A. Tulane University, 1973; M.A. The Johns Hopkins University, 1984. Philosophy.

The Ethics of Forgiveness: A Response to Butler.

Jeanne Marie Hamilton, of Camden, S.C.; B.A. Cornell University, 1978.

Women in Movement: The Expansion of Education in Urban Colombia, 1950-1980.

George William Mallory Harrison III, of Milwaukee, Wis.; A.A. Concordia College, 1971; B.A. Marquette University, 1973; M.A. University of Wisconsin, 1975; M.A. The Johns Hopkins University, 1982. Classics.

Lucan in his Roman Context: The Annaei in the Reign of Claudius.

Elizabeth Dolan Harvey, of Boston, Mass.; B.A. Smith College, 1979; M.A. The Johns Hopkins University, 1981. English.

The Discourse of Absence: The Poetic Model of Ovid's Heroides in English Literature from Chaucer to Donne.

Helen Hatzichronoglou, of Gainesville, Fla.; B.A. University of Athens, 1972. Classics.

The Ideal of Arete, and its Treatment in Euripides.

Arthur Ludwig Herman, of Minneapolis, Minn.; B.A. University of Minnesota, 1978; M.A. The Johns Hopkins University, 1980. History.

The Saumur Assembly 1611: Huguenot Political Belief and Action in the Age of Marie de Medici.

Terrance Lee Hertz, of Hanover, Pa.; B.A. The Johns Hopkins University, 1979; M.A., 1981. Earth and Planetary Sciences.

Organic Geochemistry of the Wilkins Peak, Laney and Fossil Butte Members of the Green River Formation, Wyoming.

Deborah Holtzman, of Baltimore, Md. ;B.S. Florida State University, 1973; M.S.W., 1974. Sociology.

The Relationship between Dietary Fat Consumption and Breast Cancer Mortality in American Women.

Chen-Min Hsu, of Kaohsuing, Taiwan; B.A. National Taiwan University, 1976; M.A. The Johns Hopkins University, 1982. Political Economy.

A Study in the Theory of Temporary Equilibrium with Quantity Rationing.

Terence Patrick Hughes, of Dublin, Ireland; B.A. Trinity College, 1978; M.A. The Johns Hopkins University, 1981. Earth and Planetary Sciences.

The Population Dynamics and Life Histories of Foliaceous Reef Corals.

Bruce James Hunt, of Walla Walla, Wash.; B.S. University of Washington, 1979. History of Science.

The Maxwellians.

Alice Elizabeth Ingerson, of Durham, N.C.; B.A. Wesleyan University, 1976; M.A., 1976. Anthropology.

Corporatism and Class Consciousness in Northwestern Portugal.

Priscilla Harris Kehoe, of Timonium, Md.; B.A. Florida Atlantic University, 1980; M.A., 1981; M.A. The Johns Hopkins University, 1983. Psychology.

Behaviorally Functional Opioid Systems in Neonatal Rats.

Eric Charles Klingelhöfer, of Baltimore, Md.; B.A. University of North Carolina, 1971; M.A. University of Birmingham, England, 1973; M.A. The Johns Hopkins University, 1981. History.

Manor, Vill, and Hundred: Rural Development in the Region of Micheldever, Hamphire, 700-1100.

Deborah Kohl, of Valley Forge, Pa.; B.A. University of Baltimore, 1980. Psychology.

An Automatic Encoding Deficit in the Amnesia of Korsakoff's Syndrome.

Ja Kyung Koo, of Baltimore, Md.; B.S. Seoul National University, 1977. Mathematics.

Some Studies on Integral Even Unimodular Quadratic Forms of 24 Variables.

Linda Grant Kovach, of Bryn Mawr, Pa.; B.A. Franklin and Marshall College, 1977. Earth and Planetary Sciences.

Dynamic of Magma Ascent through the Sierra Nevada, California.

Robert William Kwiatkowski, Jr., of Baltimore, Md. Biology.

Molecular Cloning, DNA Sequencing, and Analysis of the Developmental Expression of the Creatine Kinase Genes from Chicken.

Donna M. Kwilosz, of Chicago, Ill.; B.A. Clarke College; M.A. The Johns Hopkins University, 1982. Psychology.

Memory for Pain.

Soonwon Kwon, of Taegue, Korea; B.A. Sogang University, 1968; M.A. The Johns Hopkins University, 1981. Political Economy.

Demand for Medical Care among the Rural Poor in Korea: An Empirical Investigation using Survey Data.

Steven Lally, of Baltimore, Md.; B.A. Colgate University, 1977; M.A. The Johns Hopkins University, 1979. English.

A Critical Edition of the Aeneid of Thomas Phaer and Thomas Twyne: An Investigation into Renaissance Metrical Typography.

John Christian Laursen, of Rockville Centre, N.Y.; B.A. Harvard University, 1973; J.D. 1977; M.A. The Johns Hopkins University, 1981. Political Science.

Sceptical Politics in Hume and Kant: Letters, Philosophy ,and the Language of Politics.

Kang-Won Lee, of Cincinnati, Ohio; B.S. Seoul National University, 1974; M.A. Thammasat University, Thailand, 1977; M.A. The Johns Hopkins University, 1982. Political Economy.

Budget Financing and Monetary Control in an Open Economy: Implications for Sterilized Intervention Under Fixed Exchange Rates.

Marsha Meyon Lee, of Hilo, Hawaii; B.A. Swarthmore College, 1979; M.A. The Johns Hopkins University, 1982. Chemistry.

The Development of Some Quasi-one-Dimensional Organic Conductors.

David Gerard Lenze, of Little Rock, Ark.; B.S. University of Michigan at Ann Arbor, 1978; M.A. The Johns Hopkins University, 1981. Political Economy.

Stochastic Factor Supply and the Theory of the Firm.

Michael Gary Levine, of Essen, Germany; B.A. Cornell University, 1978; M.A. The Johns Hopkins University, 1983. Humanities.

Writing Between the Lines: Heine, Freud and the Effects of Self-Censorship.

Scott Harrison Lidgard, of Eugene, Ore.; B.S. University of California at Santa Cruz, 1976; M.S. University of Rochester, 1979. Earth and Planetary Sciences.

Evolution of Growth and Form in Encrusting Cheilostome Bryozoans.

Sy-Hwang Liou, of Taipei, Taiwan; B.S. Soochow University, 1974; M.A. The Johns Hopkins University, 1981. Physics and Astronomy.

Electrical and Magnetic Properties of Binary Amorphous Transition Metal Alloys.

Charles Albert Lunn, of Berlin, N.J. Biology.

The Localization and Role of Thioredoxin in ESCHERICHIA COLI.

James William Mahaffey, of Hamilton, Ohio; B.S. University of Cincinnati, 1979. Biology.

A Molecular and Genetic Approach to Actin Gene Expression in Drosophila.

James Bennett Mandrell, of Phoenix, Ariz.; B.A. Kalamazoo College, 1977; M.A. The Johns Hopkins University, 1982. Hispanic and Italian Studies.

Don Juan and Revision: Myth, Textuality, and Don Juan Tenorio.

Keith Mason, of Baltimore, Md. History.

A Region in Revolt: The Eastern Shore of Maryland, 1740-1790.

James C. McNaughton, of Baltimore, Md.; B.A. Middlebury College, 1974; M.A. The Johns Hopkins University, 1980. History.

The Wheels of the Former Machine: The Political Culture of Frankfurt am Main, 1732-1816.

Stephen Philip Menn, of Chicago, Ill.; M.A. The Johns Hopkins University, 1982. Mathematics.

Total Foliations on 3-Manifolds and the Geometry of Spaces or Coframefields.

Steven Kent Metz, of Blacksburg, Va.; B.A. University of South Carolina, 1977. Political Science.

The Anti-Apartheid Movement and the Formulation of America Policy toward South Africa, 1969-1981.

John Bruce Michael, of Rochester, N.Y.; B.A. Cornell University, 1975; M.A. The Johns Hopkins University, 1983. Humanities.

The Cipher of the World: Skepticism, Identity, and Relation in Emerson's Early Career.

Paul Joseph Miranti, Jr., of Loch Arbor, N.J.; B.A. The Johns Hopkins University, 1965. History.

From Conflict to Consensus: The American Institute of Accountants and the Professionalization of Public Accountancy, 1886-1940.

Susan May Molineaux, of New York, N.Y.; B.A. Smith College, 1975. Biology.

The Molecular Cloning of Visna Virus DNA and Characterization of Intercellular Visna Viral RNAs by S1 Nuclear Mapping and In Vitro Translation.

Kathleen Slone Morgan, of Butler, Pa.; M.S. The University of Chicago, 1978. Biology.

Sera that Detect Antigens on Teratocarcinoma Cells Induce Alterations in the Preimplantation Development of the Mouse Embryo.

Jeffrey Alan Moshier, of Baltimore, Md.; B.S. Houghton College, 1974. Biology.

Structure and Expression of U2 Small Nuclear RNA Genes and an Embryonic Gene in Mouse Transformed Cells.

Sachiko Naki, of Tokushima, Japan; Physical Course Degree, Nara Women's University, 1966; Master's Degree Course, 1968. Chemistry.

Asymptotic Expansion for the Energy Levels of the Hydrogen Molecule Ion H_2^+ in Terms of Internuclear Separation.

George Nakos, of Athens, Greece; M.S. University of London, 1977. Mathematics.

On the Brown-Peterson Homology of Certain Classifying Spaces.

Cornelius Patrick Nelan, of Baltimore, Md.; B.A. The Johns Hopkins University, 1978; M.A., 1980. Mathematics.

Unstable BP-operations and Immersions of Real Projective Spaces.

Loan Thi Nguyen, of Hanam, Vietnam; B.S. Juniata College, 1979; M.A. The Johns Hopkins University, 1981. Chemistry.

Biosynthetic and Biomimetic Studies on Nocardicins.

Bhanupongse Nidhiprabha, of Bangkok, Thailand; B.A. Thammasat University, 1974; M.Sc. The London School of Economics and Political Science, 1977; M.A. The Johns Hopkins University, 1983. Political Economy.

External Shocks and Adjustment Policies in Thailand.

Mark Robert O'Brian, of Buffalo, N.Y. Biology.

Identification and Characterization of the Hydrogen Oxidizing Electron Transport System of the Nitrogen-Fixing Bacterium Rhizobium Japonicum.

Eileen Bridget O'Hara, of New York, N.Y.; B.A. State University College at Purchase, 1976. Biology.

Purification and Analysis of the Hydrogen Uptake Enzyme from Wild Type and Mutant Strains of Rhizobium Japonicum.

Aaron Michael Pallas, of St. Louis, Mo.; B.A. University of Virginia, 1979. Sociology.

The Determinants of High School Dropout.

Milton Pappas, of New York, N.Y.; B.S.F.S. Georgetown University, 1973; M.A. The Johns Hopkins University, 1978. Political Economy.

A 'q' Theoretic Approach to Economic Growth, Exchange Rate Dynamics, and the Balance of International Indebtedness.

Bruce Byron Parker, of Amityville, N.Y.; B.A. Brown University, 1969; M.S. Massachusetts Institute of Technology, 1975; M.A. The Johns Hopkins University, 1979. Earth and Planetary Sciences.

Frictional Effects on the Tidal Dynamics of a Shallow Estuary.

Sharon Lynn Richmond, of Baltimore, Md.; B.A. University of Colorado, 1965; M.A. University of Chicago, 1980; M.A. The Johns Hopkins University, 1982. Psychology.

Factors Influencing Sibling Reaction to Childhood Cancer.

Jo Ellen Roseman, of Columbia, Md.; B.S. The University of Michigan, 1966; M.S. Michigan State University, 1969. Biology.

Turnover of Glutamine Synthetase: Purification and Characterization of A Protease which Degrades the Oxidatively Modified Protein.

William Edward Royer, Jr., of Syracuse, N.Y.; B.S. Pennsylvania State University, 1976. Biophysics.

Crystal Structures of the Cooperative Hemoglobins Found in Blood Clam Scafarca Inaequivalis.

Eileen Elizabeth Rudert, of Sarver, Pa.; B.A. Carnegie-Mellon University, 1972. Sociology.

Children and the Effects of Conflicts between Work and Home Roles upon Wives' Marital Satisfaction.

Marilyn Dean Rugg, of Middletown, Conn.; B.A. Cornell University, 1975; M.A., 1979; M.A. The Johns Hopkins University, 1980. Hispanic and Italian Studies.

Writing in Crisis: The Spanish Artist-Novel of the Early Twentieth Century.

David Wayne Saffen, of Aptos, Calif.; B.S. Yale University, 1975. Biology.

Molecular Cloning, Characterization and Sequencing Crr Gene of Escherichia Coli.

Paula Winsor Sage, of Rochester, N.Y.; B.S. University of Vermont, 1966; M.A., 1969. Classics.

Salon, Croesus and the Theme of the Ideal Life.

Laura Hersh Salganik, of Baltimore, Md.; B.A. Brown University, 1970; C.A.S. Harvard University, 1975. Sociology.

Schools Under Pressure: The External Environment and Recent Organizational Reforms.

Melvin Sambol, of Flushing, N.Y.; B.S. City College of New York, 1963; M.A. Queen's College, 1974. Earth and Planetary Sciences.

Inter-demic Selection Differences in a Cretaneous Oyster.

Gina Candia Schatteman, of Moline, Ill.; B.A. New College, 1975; M.A. The Johns Hopkins University, 1983. Chemistry.

Extensions, Modifications, and Applications of the Quantum Defect Orbital Radii.

Clifford William Schweinfest, of Baltimore, Md.; B.A. The Johns Hopkins University, 1976. Biology.

Roberta Shahin, of Hillcrest Heights, Md.; B.A. University of Rochester, 1975. Biology.

Characterization of a Late Appearing Neonatal Immune Response.

Marilyn Sides, of Birmingham, Ala.; B.A. University of Utah, 1973; M.A., 1977. Humanities

The Fate of Culture: Frederick Melchior Grimm's Criticism.

Francine Robin Smith, of Baltimore, Md.; B.A. Wesleyan University, 1979. Biology.

Studies on the Molecular Basis of Cooperativity in Human Hemoglobin.

Peter Townsend Starr, of Philadelphia, Pa.; B.A. Stanford University, 1978; M.A. The Johns Hopkins University, 1982. Humanities.

Authorities and Anarchies: Flaubert and the Problems of Power.

Janet Burstein Svirsky, of Baltimore, Md.; B.A. Reed College, 1974; M.A. The Johns Hopkins University, 1977. Mathematics.

On the Class Number of Imaginary Quadratic Fields.

Roman Svirsky, of Baltimore, Md.; M.A. The Johns Hopkins University, 1981. Mathematics.

Potentials Producing Maxionally Sharp Resonances.

Daniel Robert Talham, of Fayetteville, N.Y.; M.A. The Johns Hopkins University, 1984. Chemistry.

The Design, Synthesis and Investigation of Mixed-Valence Ferrocene Systems.

George Nichols Terzis, of Pittsburgh, Pa.; B.A. Duquesne University, 1973; M.A. The Johns Hopkins University, 1977. Philosophy.

The Requirements of Reason: An Essay on Justification in Kant's Ethics.

Michel-Rolph Trouillot, of Port-au-Prince, Haiti, Anthropology.

The Economic Integration of a Caribbean Peasantry: The Case of Donimica.

Jane C. Tylus, of Baltimore, Md.; B.A. College of William and Mary, 1978.

The Myth of Enclosure: Renaissance Pastoral from Sannazzaro to Shakespeare.

Blaire Van Valkenburgh, of Alexandria, Va.; B.S. Stockton State College, 1974; M.A. The Johns Hopkins University, 1979. Earth and Planetary Sciences.

A Morphological Analysis of Ecological Separation in Past and Present Predator Guilds.

Steven Vaughan, of Bundoora Victoria, Australia; B.Econ. University of Tasmania, 1973; M.A. The Johns Hopkins University, 1980. Political Economy.

Exchange Rate Determination and the Trade Balance with Leads and Lags.

Charles Minton Wahle, of Carmel, Calif.; B.A. University of California at Santa Barbara, 1974; M.A. The Johns Hopkins University, 1977. Earth and Planetary Sciences.

Scaling Problems in the Ecology of Colonial Invertebrates: Injury, Mortality and Colony Integration in Gorgonian Actocorals.

Nancy Palmer Wardropper, of Durham, N.C.; B.A. Vassar College, 1946; M.A. University of Miami, 1949. Hispanic and Italian Studies.

Baltasar Gracian's Two Interpretations of the Variety of "Agudeza": 1642-1648.

Shirley Anne Warshaw, of Harrisburg, Pa.; B.A. University of Pennsylvania, 1971; M.G.A., 1976. Political Science.

Cabinet Government During the Nixon and Carter Administrations.

Robert Keith Wayne, of Boston, Mass.; B.A. The Johns Hopkins University, 1978. Earth and Planetary Sciences.

A Comparative Study of Skeletal Growth and Morphology in Domestic and Wild Canids.

Frances Elizabeth Weaver, of South Hadley, Mass.; B.A. Smith College, 1979. Biology.

Studies on the Effects of Temperature and Membrane Composition on the Organization of Eukaryotic Cell Membranes.

David H. Weinberg, of Fresno, Calif. Biology.

The Biochemical Genetics of Human Adenovirus Type 2 Early Region 4.

John Graham Brent Whelan, of Corning, N.Y.; B.A. Harvard University, 1973; M.A. The Johns Hopkins University, 1979. Humanities.

Reading Fictions: Studies in James and Proust.

Martin Paul Willard, of Louisville, Ky.; B.A. Georgetown University, 1977; M.A. The Johns Hopkins University, 1980. Philosophy.

Ethical Internalism: A Critical Examination.

Stephen Marron Winters, of Silver Spring, Md.; B.S. Massachusetts Institute of Technology, 1969; M.A. University of California at San Diego, 1972; M.S.E. The Johns Hopkins University, 1976; M.A., 1977. History of Science.

Frank Mitchell Wiygul, of Jackson, Miss.; B.S. The University of Mississippi, 1979; M.A. The Johns Hopkins University, 1982. Chemistry.

Crystallographic and Computational Investigation of Organic Charge-Transfer Salts.

Thomas N. Woods, of Baltimore, Md.; B.S. Southwestern University at Memphis, 1981; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.

Daniel Zaharevitz, of Camp Springs, Md.; B.A. The Johns Hopkins University, 1977. Chemistry.

Piecewise Polynomial Cl-Hylleraas Wavefunctions for the Ground State of Two Electron Atomic Systems.

William Neal Zulch, of White Plains, N.Y.; B.A. University of New Hampshire, 1975; M.A. The Johns Hopkins University, 1978. Philosophy.

Hume's Definitions of Cause.

THE JOHNS HOPKINS UNIVERSITY • BALTIMORE, MARYLAND 21218

OFFICE OF THE REGISTRAR

July 11, 1985

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1985 Commencement Program:

1. Bachelor of Arts (Arts and Sciences)

   Add: James T. Forgione, of Baltimore, Md.
   John Kenny McLarney, of Fairfax, Va.
   Lisa K. Pease, of Abington, Pa.

   Delete: John Brett-Smith
   Wayne Creadick
   Dana Gillian
   Renee Michaels
   Mitchell Rubin
   Dirk Van Dyke

2. Bachelor of Engineering Science (Engineering)

   Change: Russell Norman Bennett, of Toledo, Ohio.
   (Change from B.S. in Materials Science and Engineering)

   Delete: Christopher Hobot

3. Bachelor of Science in Electrical Engineering (Engineering)

   Change: Mark Francis Scandariato, of Robbinsville, N.J.
   (Change from Bachelor of Engineering Science)

   Andrew Lawrence Wolfe, of Monroeville, Pa.
   (Change from B.A. in Whiting School of Engineering)

   Delete: Eric Muly

4. Bachelor of Arts (Engineering)

   Delete: Himanshu Shukla
   Judy Litman

5. Bachelor of Mechanical Engineering (Engineering)

Change: Christopher Ellsworth Everett, of Baltimore, Md.
(change from B.I.E.)

6. Bachelor of Music (Peabody Conservatory)

Delete: Charles Franklin McKinster
Celina Gale Muschel
Thomas D. Robinson III

7. Associate of Science (Continuing Studies)

Delete: Maurice Linberg Jones

8. Bachelor of Science (Continuing Studies)

Delete: Claudia Barlow
Samuel Wealcatch

9. Master of Science (Continuing Studies)

Delete: June Gilvane Kerger
Michele Lee Koff
Sally Ann Miller
Melody Young

10. Master of Administrative Science (Continuing Studies)

Delete: Ronalda Janina Meson
Paul Richard Moyer
Diane Ilene Parsley
Diane Torain

11. Master of Music (Peabody Conservatory)

Delete: David Lowell Solem

12. Artist Diploma (Peabody Conservatory)

Delete: Sandra Sonia Shapiro

13. Master of Public Health (School of Hygiene and Public Health)

Delete: Anne Page Chiapella

14. Master of Arts in International Affairs (School of Advanced International Studies)

Delete: Francesco Maria Castiglioni
Paul V. Dionne
Peter Edel
Giuseppe Nesi
Huri Tursan

15. Master of Arts (School of Advanced International Studies)

Correction: Ellen Stolfa (Diploma dated May 25, 1984)

Add: Roxana Rogers DeSole, of Littleton, Colo.; B.A. Brown University, 1973.

Mary Clare Fitzgerald, of Washington, D.C.; B.A. College of William and Mary, 1968.

Harold Rose, of Pittsburgh, Pa.; B.A. University of Pennsylvania, 1979.

Delete:

Leticia O'Teele Alfred
Antonio Mario Angotti
Amjad Ali Arbab
Imad M. Badran
Lora Jane Berg
Gregory Stephen Betsinger
Mark J. Bezner
S. Imtiaz Hussain Bokhari
Kara Agnes Bredemeyer
Stephen Barry Brookes
Jean Marie Buffenoir
John Anthony Busch
Jerome Cahn
John Michael Christ
James Edward Cox, Jr.
Alyson Keith Crouch
Karen Marie Davis
Pamela C. Docters
Fady Jean Edde
Ahmed A. Edoo
Virginia Lee Ehelebe
Ahmed Sabry El-Zawahry
Ellene Alberta Felder
Lauri Joy Fitz
Akihiro Furukawa
William Eric Garber
Lyn Johanna Garrity
Stephen Joseph Garvin
Reid Steven Goldstein
Stephanie Valencia Green
Victoria Margaret Griffith
Laura Lee Guimond
David Clyde Hagedorn
Roya Hakimzadeh
Shelley Lynne Harris
Laura Anne Hastings
Mary Louise Heslin
Joanna Therese Horsfall
Charles Wofford Howell
Howard Alan Isenstein
Craig Leonard Jackson
Estrellita N. Jones
Douglas Trevor Kuzmiak
Laurel Rosalind LaCivita
Marc Aaron Levy
Christiane Loiselle
Price Gordon Lowenstein
Edward F. MacDonald
Carolyn Ann Mar
Linda Markey
Debra Marks
Maximilian Wellborn Matthews II
Thomas Marc Mayer

Master of Arts, SAIS (cont'd.)

Marshall Trammell Mays, Jr.
David Mees
Ana Belen Montes
Andrew Maitland Moravcsik
Robin Lynn Myers
Kevin Michael O'Reilly
Afshin Pedram
Ronald Wayne Peppe II
Stephen Leon Pilon
Ann G. Pluemer
James Robert Robertson
Glenn Edward Robinson
Carlo Emanuele Rocco di Torrepadula
Thomas Leonard Rogers
Cortlandt Stead Rosebro
Ernesto Rosell Pau
Christopher Robert Rossi
Kathleen Nell Schalch
Miguel Alberto Seco
Laura Nell Smith
David Edmund Stenson
Thomas William Stoever
Jeanett Cheng-ning Tang
Silvia Nelly Torres
Susan Wanetta Vandiver
Carmela C. Vetri
Margo Jacqueline Vickers
Peter Vrecar
Patricia Kay Wafer
Edward Wilkes Walker

16. Master of Science (Engineering)

Delete: Ila Marie Pietsch

17. Master of Arts (Arts and Sciences)

Change: Mark Edward Perry (change from Michael)

18. Doctor of Philosophy (Engineering)

Change: Ralph Sanders Budwig, Mechanics and Materials Science Engineering (change from Chemical Engineering)

Dana Alan Walker, Mechanics and Materials Science Engineering (change from Chemical Engineering)

19. Doctor of Philosophy (Arts and Sciences)

Delete: Clifford William Schweinfest